

**California Department of Education Assessment Development & Administration Division**



# California Assessment of Student Performance and Progress Smarter Balanced Summative Assessment 2020–2021 Technical Report

## Chapter 8 Appendices

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**By ETS**



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### Appendix 8.A: Item Response Theory Parameter Estimates

IRT parameter estimates used in the 2020–2021 administration of the Smarter Balanced Summative Assessments were derived from the 2013–2014 field tests as well as the operational assessments from the 2014–2015 through 2018–2019 administrations with embedded field tests. The Smarter Balanced Assessment Consortium conducted calibration and equating for all item parameter estimates. Tables listed are representative for one grade and a content area.

Table 8.A. IRT *a*-values for Grade Three—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 317 | 0.70 | 0.25 | 0.19 | 1.52 |
| Claim 2 | 262 | 0.67 | 0.20 | 0.18 | 1.21 |
| Claim 3 | 183 | 0.54 | 0.17 | 0.21 | 1.01 |
| Claim 4 | 147 | 0.67 | 0.24 | 0.18 | 1.29 |
| **All Items** | **909** | **0.66** | **0.23** | **0.18** | **1.52** |

Table 8.A. IRT *a*-values for Grade Four—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 279 | 0.64 | 0.23 | 0.15 | 1.41 |
| Claim 2 | 300 | 0.60 | 0.22 | 0.17 | 1.24 |
| Claim 3 | 201 | 0.55 | 0.17 | 0.19 | 1.14 |
| Claim 4 | 172 | 0.58 | 0.21 | 0.15 | 1.29 |
| **All Items** | **952** | **0.60** | **0.21** | **0.15** | **1.41** |

Table 8.A. IRT *a*-values for Grade Five—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 318 | 0.63 | 0.23 | 0.18 | 1.38 |
| Claim 2 | 313 | 0.62 | 0.22 | 0.17 | 1.25 |
| Claim 3 | 168 | 0.53 | 0.15 | 0.21 | 0.99 |
| Claim 4 | 165 | 0.66 | 0.19 | 0.23 | 1.18 |
| **All Items** | **964** | **0.62** | **0.21** | **0.17** | **1.38** |

Table 8.A. IRT *a*-values for Grade Six—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 276 | 0.62 | 0.21 | 0.20 | 1.18 |
| Claim 2 | 312 | 0.59 | 0.22 | 0.17 | 1.34 |
| Claim 3 | 178 | 0.51 | 0.18 | 0.19 | 0.95 |
| Claim 4 | 174 | 0.58 | 0.20 | 0.17 | 1.05 |
| **All Items** | **940** | **0.58** | **0.21** | **0.17** | **1.34** |

Table 8.A. IRT *a*-values for Grade Seven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 277 | 0.59 | 0.20 | 0.19 | 1.30 |
| Claim 2 | 309 | 0.58 | 0.22 | 0.17 | 1.65 |
| Claim 3 | 176 | 0.51 | 0.16 | 0.20 | 1.00 |
| Claim 4 | 143 | 0.57 | 0.20 | 0.16 | 1.00 |
| **All Items** | **905** | **0.57** | **0.20** | **0.16** | **1.65** |

Table 8.A. IRT *a*-values for Grade Eight—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 284 | 0.59 | 0.20 | 0.15 | 1.12 |
| Claim 2 | 340 | 0.54 | 0.18 | 0.15 | 1.07 |
| Claim 3 | 212 | 0.50 | 0.16 | 0.13 | 0.91 |
| Claim 4 | 142 | 0.57 | 0.20 | 0.20 | 1.19 |
| **All Items** | **978** | **0.55** | **0.19** | **0.13** | **1.19** |

Table 8.A. IRT *a*-values for Grade Eleven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 900 | 0.55 | 0.19 | 0.13 | 1.16 |
| Claim 2 | 809 | 0.48 | 0.15 | 0.14 | 1.07 |
| Claim 3 | 604 | 0.45 | 0.16 | 0.10 | 0.98 |
| Claim 4 | 400 | 0.48 | 0.18 | 0.12 | 1.19 |
| **All Items** | **2,713** | **0.49** | **0.17** | **0.10** | **1.19** |

Table 8.A. IRT *a*-values for Grade Three—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 771 | 0.84 | 0.29 | 0.16 | 1.59 |
| Claim 2 | 278 | 0.89 | 0.27 | 0.20 | 1.51 |
| Claim 3 | 236 | 0.73 | 0.30 | 0.13 | 1.53 |
| **All Items** | **1,285** | **0.83** | **0.29** | **0.13** | **1.59** |

Table 8.A. IRT *a*-values for Grade Four—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 852 | 0.84 | 0.28 | 0.17 | 1.64 |
| Claim 2 | 313 | 0.79 | 0.29 | 0.20 | 1.63 |
| Claim 3 | 247 | 0.75 | 0.28 | 0.25 | 1.51 |
| **All Items** | **1,412** | **0.81** | **0.29** | **0.17** | **1.64** |

Table 8.A. IRT *a*-values for Grade Five—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 829 | 0.77 | 0.29 | 0.14 | 1.62 |
| Claim 2 | 301 | 0.80 | 0.30 | 0.16 | 1.56 |
| Claim 3 | 249 | 0.67 | 0.30 | 0.16 | 1.77 |
| **All Items** | **1,379** | **0.76** | **0.30** | **0.14** | **1.77** |

Table 8.A. IRT *a*-values for Grade Six—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 757 | 0.69 | 0.26 | 0.13 | 1.40 |
| Claim 2 | 235 | 0.78 | 0.26 | 0.15 | 1.71 |
| Claim 3 | 220 | 0.59 | 0.25 | 0.13 | 1.51 |
| **All Items** | **1,212** | **0.69** | **0.26** | **0.13** | **1.71** |

Table 8.A. IRT *a*-values for Grade Seven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 692 | 0.73 | 0.28 | 0.10 | 1.49 |
| Claim 2 | 240 | 0.79 | 0.29 | 0.11 | 1.43 |
| Claim 3 | 171 | 0.61 | 0.33 | 0.12 | 1.68 |
| **All Items** | **1,103** | **0.73** | **0.30** | **0.10** | **1.68** |

Table 8.A. IRT *a*-values for Grade Eight—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 636 | 0.58 | 0.26 | 0.09 | 1.33 |
| Claim 2 | 185 | 0.71 | 0.28 | 0.16 | 1.40 |
| Claim 3 | 160 | 0.50 | 0.24 | 0.14 | 1.36 |
| **All Items** | **981** | **0.59** | **0.27** | **0.09** | **1.40** |

Table 8.A. IRT *a*-values for Grade Eleven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 1,813 | 0.60 | 0.27 | 0.09 | 1.57 |
| Claim 2 | 388 | 0.58 | 0.27 | 0.10 | 1.40 |
| Claim 3 | 423 | 0.46 | 0.23 | 0.09 | 1.34 |
| **All Items** | **2,624** | **0.58** | **0.27** | **0.09** | **1.57** |

Table 8.A. IRT *b*-values for Grade Three—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 317 | -0.54 | 1.10 | -2.72 | 4.69 |
| Claim 2 | 262 | -0.79 | 1.04 | -2.90 | 4.12 |
| Claim 3 | 183 | -0.17 | 1.21 | -2.92 | 3.82 |
| Claim 4 | 147 | -0.21 | 0.96 | -2.22 | 1.86 |
| **All Items** | **909** | **-0.49** | **1.11** | **-2.92** | **4.69** |

Table 8.A. IRT *b*-values for Grade Four—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 279 | 0.16 | 1.30 | -2.60 | 6.23 |
| Claim 2 | 300 | -0.47 | 1.21 | -3.25 | 2.94 |
| Claim 3 | 201 | 0.01 | 1.31 | -2.82 | 4.25 |
| Claim 4 | 172 | 0.34 | 1.24 | -2.03 | 3.73 |
| **All Items** | **952** | **-0.04** | **1.30** | **-3.25** | **6.23** |

Table 8.A. IRT *b*-values for Grade Five—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 318 | 0.44 | 1.42 | -2.60 | 5.65 |
| Claim 2 | 313 | -0.21 | 1.31 | -3.25 | 3.29 |
| Claim 3 | 168 | 0.31 | 1.32 | -2.82 | 3.48 |
| Claim 4 | 165 | 0.36 | 1.17 | -2.03 | 3.83 |
| **All Items** | **964** | **0.19** | **1.35** | **-3.25** | **5.65** |

Table 8.A. IRT *b*-values for Grade Six—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 276 | 0.94 | 1.33 | -2.10 | 4.78 |
| Claim 2 | 312 | 0.57 | 1.48 | -3.25 | 5.54 |
| Claim 3 | 178 | 0.64 | 1.56 | -2.82 | 7.38 |
| Claim 4 | 174 | 0.75 | 1.15 | -1.76 | 3.61 |
| **All Items** | **940** | **0.72** | **1.40** | **-3.25** | **7.38** |

Table 8.A. IRT *b*-values for Grade Seven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 277 | 1.24 | 1.46 | -1.84 | 6.63 |
| Claim 2 | 309 | 0.83 | 1.46 | -2.72 | 5.31 |
| Claim 3 | 176 | 0.72 | 1.37 | -1.71 | 5.88 |
| Claim 4 | 143 | 1.37 | 1.47 | -1.49 | 5.61 |
| **All Items** | **905** | **1.02** | **1.46** | **-2.72** | **6.63** |

Table 8.A. IRT *b*-values for Grade Eight—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 284 | 1.49 | 1.41 | -1.84 | 6.42 |
| Claim 2 | 340 | 0.83 | 1.38 | -3.01 | 4.56 |
| Claim 3 | 212 | 0.78 | 1.30 | -2.12 | 3.87 |
| Claim 4 | 142 | 1.46 | 1.40 | -1.79 | 5.19 |
| **All Items** | **978** | **1.10** | **1.41** | **-3.01** | **6.42** |

Table 8.A. IRT *b*-values for Grade Eleven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 900 | 1.92 | 1.45 | -2.09 | 9.10 |
| Claim 2 | 809 | 1.65 | 1.46 | -1.98 | 9.15 |
| Claim 3 | 604 | 1.33 | 1.43 | -1.65 | 6.62 |
| Claim 4 | 400 | 2.02 | 1.42 | -1.20 | 8.94 |
| **All Items** | **2,713** | **1.72** | **1.47** | **-2.09** | **9.15** |

Table 8.A. IRT *b*-values for Grade Three—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 771 | -1.13 | 1.08 | -4.34 | 4.16 |
| Claim 2 | 278 | -0.34 | 0.91 | -2.68 | 3.20 |
| Claim 3 | 236 | -0.13 | 1.05 | -2.42 | 5.12 |
| **All Items** | **1,285** | **-0.77** | **1.13** | **-4.34** | **5.12** |

Table 8.A. IRT *b*-values for Grade Four—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 852 | -0.35 | 1.14 | -3.38 | 4.48 |
| Claim 2 | 313 | 0.10 | 1.04 | -2.68 | 3.28 |
| Claim 3 | 247 | 0.31 | 1.03 | -2.08 | 5.18 |
| **All Items** | **1,412** | **-0.14** | **1.13** | **-3.38** | **5.18** |

Table 8.A. IRT *b*-values for Grade Five—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 829 | 0.17 | 1.17 | -3.38 | 6.20 |
| Claim 2 | 301 | 0.99 | 1.08 | -2.68 | 4.63 |
| Claim 3 | 249 | 0.89 | 1.19 | -2.01 | 5.98 |
| **All Items** | **1,379** | **0.48** | **1.21** | **-3.38** | **6.20** |

Table 8.A. IRT *b*-values for Grade Six—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 757 | 0.79 | 1.41 | -3.93 | 9.16 |
| Claim 2 | 235 | 1.39 | 1.30 | -2.98 | 6.44 |
| Claim 3 | 220 | 1.79 | 1.60 | -2.16 | 8.75 |
| **All Items** | **1,212** | **1.09** | **1.48** | **-3.93** | **9.16** |

Table 8.A. IRT *b*-values for Grade Seven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 692 | 1.73 | 1.25 | -1.79 | 7.80 |
| Claim 2 | 240 | 1.90 | 1.05 | -1.09 | 5.07 |
| Claim 3 | 171 | 2.22 | 1.56 | -1.65 | 6.59 |
| **All Items** | **1,103** | **1.84** | **1.27** | **-1.79** | **7.80** |

Table 8.A. IRT *b*-values for Grade Eight—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 636 | 1.98 | 1.68 | -1.87 | 7.75 |
| Claim 2 | 185 | 2.30 | 1.43 | -2.84 | 6.48 |
| Claim 3 | 160 | 2.80 | 1.82 | -1.65 | 9.02 |
| **All Items** | **981** | **2.18** | **1.69** | **-2.84** | **9.02** |

Table 8.A. IRT *b*-values for Grade Eleven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 1,813 | 2.37 | 1.50 | -4.43 | 8.72 |
| Claim 2 | 388 | 3.10 | 1.31 | -1.10 | 6.68 |
| Claim 3 | 423 | 3.05 | 1.54 | -1.05 | 9.25 |
| **All Items** | **2,624** | **2.59** | **1.51** | **-4.43** | **9.25** |

**Note:** In table 8.A.29 through table 8.A.42, the mode of each distribution is **highlighted** in **bold** text and indicated using an asterisk (\*).

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Three—ELA Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | 4 | 5 | 5 | 6 | 5 | 5 |
| 0.2–< 0.4 | 94 | 99 | 104 | 106 | 106 | 104 |
| 0.4–< 0.6 | 214 | 228 | 234 | 239 | 238 | 231 |
| 0.6–< 0.8 | **\*234** | **\*244** | **\*254** | **\*258** | **\*258** | **\*253** |
| 0.8–< 1.0 | 131 | 134 | 138 | 138 | 138 | 135 |
| 1.0–< 1.2 | 53 | 54 | 54 | 55 | 54 | 53 |
| 1.2–< 1.4 | 7 | 7 | 7 | 7 | 7 | 6 |
| 1.4–< 1.6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Four—ELA Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | 9 | 10 | 11 | 11 | 11 | 11 |
| 0.2–< 0.4 | 152 | 156 | 163 | 163 | 163 | 160 |
| 0.4–< 0.6 | **\*248** | **\*258** | **\*271** | **\*276** | **\*276** | **\*271** |
| 0.6–< 0.8 | 216 | 228 | 237 | 243 | 238 | 228 |
| 0.8–< 1.0 | 84 | 91 | 91 | 95 | 90 | 87 |
| 1.0–< 1.2 | 30 | 34 | 33 | 29 | 23 | 22 |
| 1.2–< 1.4 | 1 | 1 | 2 | 2 | 2 | 1 |
| 1.4–< 1.6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Five—ELA Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 2 | 2 | 2 | 1 | 1 | 1 |
| 0.2–< 0.4 | 112 | 111 | 111 | 106 | 103 | 102 |
| 0.4–< 0.6 | **\*281** | **\*295** | **\*303** | **\*296** | **\*289** | **\*286** |
| 0.6–< 0.8 | 219 | 228 | 229 | 218 | 203 | 199 |
| 0.8–< 1.0 | 110 | 113 | 113 | 105 | 95 | 92 |
| 1.0–< 1.2 | 35 | 35 | 33 | 28 | 21 | 20 |
| 1.2–< 1.4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Six—ELA Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0.2–< 0.4 | 170 | 180 | 184 | 184 | 182 | 178 |
| 0.4–< 0.6 | **\*279** | **\*293** | **\*297** | **\*298** | **\*293** | **\*285** |
| 0.6–< 0.8 | 187 | 202 | 207 | 206 | 194 | 186 |
| 0.8–< 1.0 | 74 | 80 | 80 | 79 | 72 | 67 |
| 1.0–< 1.2 | 6 | 6 | 6 | 6 | 4 | 4 |
| 1.2–< 1.4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Seven—ELA Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 7 | 8 | 8 | 8 | 8 | 8 | 8 |
| 0.2–< 0.4 | 171 | 175 | 178 | 179 | 176 | 171 | 161 |
| 0.4–< 0.6 | **\*264** | **\*279** | **\*282** | **\*285** | **\*281** | **\*274** | **\*257** |
| 0.6–< 0.8 | 186 | 201 | 202 | 199 | 196 | 188 | 171 |
| 0.8–< 1.0 | 44 | 47 | 49 | 51 | 52 | 44 | 39 |
| 1.0–< 1.2 | 6 | 6 | 6 | 6 | 4 | 4 | 4 |
| 1.2–< 1.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Eight—ELA Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 10 | 11 | 14 | 14 | 14 | 14 | 14 |
| 0.2–< 0.4 | 163 | 177 | 182 | 183 | 181 | 173 | 169 |
| 0.4–< 0.6 | **\*305** | **\*329** | **\*334** | **\*338** | **\*333** | **\*319** | **\*305** |
| 0.6–< 0.8 | 181 | 189 | 194 | 191 | 188 | 183 | 178 |
| 0.8–< 1.0 | 52 | 56 | 58 | 57 | 54 | 54 | 50 |
| 1.0–< 1.2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1.2–< 1.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Eleven—ELA Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| 0–< 0.2 | 77 | 78 | 82 | 82 | 82 | 81 | 76 |
| 0.2–< 0.4 | 696 | 712 | 725 | 724 | 721 | 702 | 583 |
| 0.4–< 0.6 | **\*1,019** | **\*1,041** | **\*1,070** | **\*1,073** | **\*1,063** | **\*1,041** | **874** |
| 0.6–< 0.8 | 458 | 475 | 482 | 485 | 474 | 460 | 380 |
| 0.8–< 1.0 | 81 | 83 | 84 | 83 | 80 | 80 | 68 |
| 1.0–< 1.2 | 15 | 15 | 15 | 15 | 13 | 13 | 11 |
| 1.2–< 1.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Three—Mathematics Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | 8 | 10 | 10 | 10 | 10 | 9 |
| 0.2–< 0.4 | 78 | 89 | 89 | 89 | 89 | 87 |
| 0.4–< 0.6 | 164 | 188 | 188 | 188 | 188 | 170 |
| 0.6–< 0.8 | 240 | 266 | 266 | 266 | 266 | 238 |
| 0.8–< 1.0 | **\*244** | **\*279** | **\*279** | **\*279** | **\*279** | **\*248** |
| 1.0–< 1.2 | 182 | 223 | 223 | 223 | 223 | 199 |
| 1.2–< 1.4 | 101 | 126 | 126 | 126 | 126 | 116 |
| 1.4–< 1.6 | 9 | 10 | 10 | 10 | 10 | 10 |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Four—Mathematics Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 5 | 5 | 5 | 5 | 5 | 4 |
| 0.2–< 0.4 | 88 | 89 | 89 | 89 | 88 | 61 |
| 0.4–< 0.6 | 223 | 227 | 227 | 227 | 225 | 132 |
| 0.6–< 0.8 | **\*324** | **\*331** | **\*331** | **\*328** | **\*326** | **\*207** |
| 0.8–< 1.0 | 307 | 310 | 310 | 310 | 307 | 180 |
| 1.0–< 1.2 | 181 | 185 | 185 | 184 | 184 | 99 |
| 1.2–< 1.4 | 98 | 98 | 98 | 97 | 97 | 54 |
| 1.4–< 1.6 | 31 | 31 | 31 | 31 | 30 | 16 |
| 1.6–< 1.8 | 7 | 7 | 7 | 7 | 7 | 3 |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Five—Mathematics Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 18 | 19 | 19 | 19 | 19 | 18 |
| 0.2–< 0.4 | 125 | 129 | 129 | 129 | 129 | 120 |
| 0.4–< 0.6 | 268 | 273 | 273 | 270 | 268 | 238 |
| 0.6–< 0.8 | **\*313** | **\*318** | **\*317** | **\*312** | **\*298** | **\*254** |
| 0.8–< 1.0 | 243 | 250 | 250 | 249 | 243 | 212 |
| 1.0–< 1.2 | 149 | 154 | 154 | 154 | 153 | 135 |
| 1.2–< 1.4 | 87 | 89 | 89 | 89 | 88 | 76 |
| 1.4–< 1.6 | 24 | 25 | 25 | 25 | 25 | 23 |
| 1.6–< 1.8 | 2 | 2 | 2 | 2 | 2 | 1 |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Six—Mathematics Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 27 | 27 | 27 | 27 | 27 | 27 |
| 0.2–< 0.4 | 154 | 154 | 154 | 154 | 154 | 154 |
| 0.4–< 0.6 | 250 | 250 | 250 | 249 | 241 | 240 |
| 0.6–< 0.8 | **\*287** | **\*287** | **\*287** | **\*286** | **\*281** | **\*281** |
| 0.8–< 1.0 | 252 | 252 | 252 | 252 | 250 | 250 |
| 1.0–< 1.2 | 123 | 123 | 123 | 123 | 121 | 121 |
| 1.2–< 1.4 | 21 | 21 | 21 | 21 | 21 | 21 |
| 1.4–< 1.6 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1.6–< 1.8 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Seven—Mathematics Non-PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 29 | 29 | 29 | 29 | 29 | 29 | 25 |
| 0.2–< 0.4 | 163 | 163 | 163 | 163 | 163 | 163 | 161 |
| 0.4–< 0.6 | 177 | 177 | 177 | 177 | 177 | 176 | 168 |
| 0.6–< 0.8 | **\*237** | **\*238** | **\*238** | **\*238** | **\*237** | **\*233** | **\*225** |
| 0.8–< 1.0 | 217 | 218 | 218 | 218 | 217 | 215 | 208 |
| 1.0–< 1.2 | 157 | 157 | 157 | 157 | 157 | 157 | 150 |
| 1.2–< 1.4 | 35 | 35 | 35 | 35 | 35 | 35 | 34 |
| 1.4–< 1.6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Eight—Mathematics Non-PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| 0.2–< 0.4 | 216 | 216 | 216 | 216 | 216 | 216 | 214 |
| 0.4–< 0.6 | **\*236** | **\*236** | **\*236** | **\*235** | **\*235** | **\*234** | **\*231** |
| 0.6–< 0.8 | 221 | 221 | 221 | 220 | 220 | 214 | 212 |
| 0.8–< 1.0 | 127 | 127 | 127 | 127 | 127 | 124 | 124 |
| 1.0–< 1.2 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| 1.2–< 1.4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Eleven—Mathematics Non-PT Items

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| 0–< 0.2 | 172 | 183 | 183 | 183 | 183 | 183 | 181 | 162 |
| 0.2–< 0.4 | 561 | 586 | 586 | 586 | 586 | 586 | 586 | 478 |
| 0.4–< 0.6 | **\*616** | **\*645** | **\*645** | **\*645** | **\*645** | **\*645** | **\*645** | **\*559** |
| 0.6–< 0.8 | 555 | 575 | 575 | 575 | 575 | 575 | 574 | 505 |
| 0.8–< 1.0 | 397 | 409 | 409 | 409 | 409 | 409 | 409 | 339 |
| 1.0–< 1.2 | 127 | 134 | 134 | 134 | 134 | 134 | 134 | 123 |
| 1.2–< 1.4 | 16 | 18 | 18 | 18 | 18 | 18 | 18 | 15 |
| 1.4–< 1.6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

**Note:** In table 8.A.43 through table 8.A.56, the mode of each distribution is **highlighted** in **bold** text and indicated using an asterisk (\*).

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Three—ELA Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | 7 | 7 | 7 | 7 | 6 | 4 |
| -2.5–< -2.0 | 44 | 44 | 44 | 44 | 43 | 39 |
| -2.0–< -1.5 | 116 | 120 | 120 | 120 | 118 | 112 |
| -1.5–< -1.0 | \*125 | \*128 | \*132 | \*134 | \*131 | \*128 |
| -1.0–< -0.5 | 114 | 115 | 120 | 123 | 122 | 120 |
| -0.5–< 0 | 119 | 127 | 131 | 132 | 133 | 131 |
| 0–< 0.5 | 91 | 100 | 101 | 107 | 107 | 107 |
| 0.5–< 1.0 | 70 | 73 | 76 | 76 | 76 | 76 |
| 1.0–< 1.5 | 28 | 31 | 33 | 34 | 37 | 37 |
| 1.5–< 2.0 | 11 | 14 | 17 | 17 | 18 | 18 |
| 2.0–< 2.5 | 8 | 8 | 8 | 8 | 8 | 8 |
| 2.5–< 3.0 | 3 | 3 | 4 | 4 | 4 | 4 |
| 3.0–< 3.5 | N/A | N/A | 1 | 1 | 1 | 1 |
| >= 3.5 | 2 | 2 | 3 | 3 | 3 | 3 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Four—ELA Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| -3.0–< -2.5 | 7 | 7 | 7 | 5 | 4 | 4 |
| -2.5–< -2.0 | 31 | 37 | 37 | 33 | 25 | 23 |
| -2.0–< -1.5 | 60 | 62 | 62 | 59 | 52 | 50 |
| -1.5–< -1.0 | 94 | 102 | 103 | 103 | 101 | 93 |
| -1.0–< -0.5 | 103 | 107 | 108 | 109 | 107 | 103 |
| -0.5–< 0 | **\*114** | **\*116** | **\*118** | 118 | 118 | 116 |
| 0–< 0.5 | 108 | 113 | 117 | **\*123** | **\*126** | **\*120** |
| 0.5–< 1.0 | 71 | 76 | 77 | 84 | 83 | 83 |
| 1.0–< 1.5 | 61 | 64 | 73 | 76 | 76 | 76 |
| 1.5–< 2.0 | 45 | 44 | 48 | 49 | 50 | 50 |
| 2.0–< 2.5 | 23 | 23 | 28 | 29 | 29 | 30 |
| 2.5–< 3.0 | 13 | 16 | 19 | 18 | 19 | 19 |
| 3.0–< 3.5 | 4 | 5 | 5 | 6 | 6 | 6 |
| >= 3.5 | 6 | 6 | 6 | 7 | 7 | 7 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Five—ELA Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | 1 | 1 | 1 | N/A | N/A | N/A |
| -3.0–< -2.5 | 6 | 6 | 5 | 1 | N/A | N/A |
| -2.5–< -2.0 | 36 | 36 | 36 | 19 | 9 | 9 |
| -2.0–< -1.5 | 42 | 42 | 42 | 33 | 21 | 20 |
| -1.5–< -1.0 | 86 | 90 | 90 | 88 | 75 | 73 |
| -1.0–< -0.5 | **\*106** | **\*109** | **\*105** | **\*102** | 98 | 97 |
| -0.5–< 0 | 96 | 100 | 101 | 100 | 99 | 95 |
| 0–< 0.5 | 83 | 90 | 92 | 91 | 88 | 86 |
| 0.5–< 1.0 | 100 | 101 | 103 | **\*102** | **\*102** | **\*101** |
| 1.0–< 1.5 | 81 | 81 | 86 | 85 | 85 | 85 |
| 1.5–< 2.0 | 52 | 54 | 56 | 57 | 57 | 57 |
| 2.0–< 2.5 | 46 | 49 | 49 | 49 | 49 | 49 |
| 2.5–< 3.0 | 15 | 16 | 16 | 17 | 18 | 17 |
| 3.0–< 3.5 | 7 | 7 | 7 | 8 | 9 | 9 |
| >= 3.5 | 6 | 6 | 6 | 6 | 6 | 6 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Six—ELA Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | 2 | 2 | 2 | 2 | 2 | 1 |
| -2.5–< -2.0 | 4 | 4 | 4 | 3 | N/A | N/A |
| -2.0–< -1.5 | 11 | 11 | 11 | 11 | 7 | 6 |
| -1.5–< -1.0 | 52 | 56 | 56 | 55 | 40 | 38 |
| -1.0–< -0.5 | 73 | 77 | 80 | 79 | 73 | 67 |
| -0.5–< 0 | 93 | 95 | 95 | 95 | 95 | 90 |
| 0–< 0.5 | 82 | 88 | 90 | 90 | 89 | 86 |
| 0.5–< 1.0 | 93 | 100 | 102 | 103 | 102 | 98 |
| 1.0–< 1.5 | **\*100** | **\*106** | **\*108** | **\*108** | **\*109** | **\*107** |
| 1.5–< 2.0 | 80 | 83 | 85 | 85 | 85 | 85 |
| 2.0–< 2.5 | 54 | 60 | 60 | 61 | 61 | 61 |
| 2.5–< 3.0 | 36 | 39 | 40 | 40 | 40 | 40 |
| 3.0–< 3.5 | 19 | 21 | 21 | 21 | 21 | 20 |
| >= 3.5 | 23 | 25 | 26 | 26 | 27 | 27 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Seven—ELA Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | 3 | 3 | 3 | 3 | 2 | 1 | 1 |
| -2.0–< -1.5 | 12 | 12 | 12 | 12 | 8 | 8 | 6 |
| -1.5–< -1.0 | 39 | 42 | 42 | 41 | 39 | 24 | 19 |
| -1.0–< -0.5 | 42 | 48 | 48 | 47 | 44 | 40 | 34 |
| -0.5–< 0 | 78 | 82 | 82 | 82 | 81 | 77 | 69 |
| 0–< 0.5 | 79 | 79 | 80 | 79 | 79 | 78 | 76 |
| 0.5–< 1.0 | 77 | 78 | 78 | 78 | 77 | 76 | 69 |
| 1.0–< 1.5 | **\*103** | **\*104** | **\*106** | **\*106** | **\*106** | **\*104** | **\*97** |
| 1.5–< 2.0 | 85 | 94 | 96 | 99 | 99 | 99 | 93 |
| 2.0–< 2.5 | 57 | 62 | 65 | 66 | 66 | 66 | 65 |
| 2.5–< 3.0 | 34 | 40 | 40 | 40 | 40 | 40 | 38 |
| 3.0–< 3.5 | 22 | 25 | 25 | 25 | 26 | 26 | 25 |
| >= 3.5 | 47 | 47 | 48 | 50 | 50 | 50 | 48 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Eight—ELA Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -3.0–< -2.5 | 1 | 1 | 1 | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| -2.0–< -1.5 | 11 | 11 | 11 | 9 | 6 | 5 | 5 |
| -1.5–< -1.0 | 28 | 30 | 30 | 28 | 26 | 18 | 14 |
| -1.0–< -0.5 | 43 | 50 | 50 | 49 | 45 | 41 | 38 |
| -0.5–< 0 | **\*103** | **\*114** | **\*115** | **\*115** | **\*112** | 102 | 97 |
| 0–< 0.5 | 81 | 81 | 84 | 85 | 82 | 81 | 77 |
| 0.5–< 1.0 | 85 | 87 | 88 | 90 | 90 | 88 | 83 |
| 1.0–< 1.5 | 82 | 88 | 92 | 93 | 93 | 92 | 90 |
| 1.5–< 2.0 | **\*103** | 107 | 107 | 108 | 108 | **\*108** | **\*106** |
| 2.0–< 2.5 | 67 | 71 | 73 | 74 | 75 | 75 | 75 |
| 2.5–< 3.0 | 50 | 56 | 58 | 58 | 58 | 58 | 58 |
| 3.0–< 3.5 | 30 | 35 | 39 | 38 | 38 | 38 | 37 |
| >= 3.5 | 29 | 33 | 36 | 38 | 39 | 39 | 38 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Eleven—ELA Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | 1 | 1 | 1 | 1 | 1 | N/A | N/A |
| -2.0–< -1.5 | 9 | 9 | 9 | 7 | 6 | 6 | 5 |
| -1.5–< -1.0 | 24 | 24 | 24 | 22 | 17 | 16 | 12 |
| -1.0–< -0.5 | 87 | 87 | 86 | 83 | 75 | 71 | 48 |
| -0.5–< 0 | 174 | 174 | 174 | 174 | 166 | 156 | 111 |
| 0–< 0.5 | 221 | 222 | 223 | 222 | 218 | 209 | 162 |
| 0.5–< 1.0 | 284 | 289 | 294 | 292 | 288 | 278 | 220 |
| 1.0–< 1.5 | 283 | 289 | 292 | 292 | 292 | 288 | 236 |
| 1.5–< 2.0 | **\*340** | **\*355** | **\*364** | **\*366** | **\*366** | **\*356** | **\*300** |
| 2.0–< 2.5 | 302 | 307 | 320 | 321 | 320 | 320 | 279 |
| 2.5–< 3.0 | 218 | 227 | 240 | 243 | 243 | 239 | 213 |
| 3.0–< 3.5 | 163 | 171 | 174 | 175 | 176 | 174 | 169 |
| >= 3.5 | 240 | 249 | 257 | 264 | 265 | 264 | 237 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Three—Mathematics Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| < -3.5 | 3 | 3 | 3 | 3 | 3 | 2 |
| -3.5–< -3.0 | 14 | 15 | 15 | 15 | 15 | 9 |
| -3.0–< -2.5 | 47 | 48 | 48 | 48 | 48 | 34 |
| -2.5–< -2.0 | 94 | 101 | 101 | 101 | 101 | 82 |
| -2.0–< -1.5 | **\*180** | **\*194** | **\*194** | **\*194** | **\*194** | 153 |
| -1.5–< -1.0 | 160 | 163 | 163 | 163 | 163 | 151 |
| -1.0–< -0.5 | 158 | 182 | 182 | 182 | 182 | 174 |
| -0.5–< 0 | 146 | 189 | 189 | 189 | 189 | **\*179** |
| 0–< 0.5 | 113 | 148 | 148 | 148 | 148 | 145 |
| 0.5–< 1.0 | 67 | 89 | 89 | 89 | 89 | 89 |
| 1.0–< 1.5 | 21 | 29 | 29 | 29 | 29 | 29 |
| 1.5–< 2.0 | 10 | 13 | 13 | 13 | 13 | 13 |
| 2.0–< 2.5 | 4 | 6 | 6 | 6 | 6 | 6 |
| 2.5–< 3.0 | 3 | 3 | 3 | 3 | 3 | 3 |
| 3.0–< 3.5 | 4 | 5 | 5 | 5 | 5 | 5 |
| >= 3.5 | 2 | 3 | 3 | 3 | 3 | 3 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Four—Mathematics Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | 3 | 3 | 3 | 3 | 3 | 2 |
| -3.0–< -2.5 | 14 | 14 | 14 | 11 | 10 | 4 |
| -2.5–< -2.0 | 39 | 39 | 39 | 37 | 36 | 18 |
| -2.0–< -1.5 | 73 | 73 | 73 | 73 | 70 | 22 |
| -1.5–< -1.0 | 133 | 134 | 134 | 134 | 132 | 51 |
| -1.0–< -0.5 | 177 | 181 | 181 | 181 | 180 | 76 |
| -0.5–< 0 | **\*255** | **\*261** | **\*261** | **\*261** | **\*260** | 128 |
| 0–< 0.5 | 216 | 219 | 219 | 219 | 219 | **\*143** |
| 0.5–< 1.0 | 175 | 177 | 177 | 177 | 177 | 139 |
| 1.0–< 1.5 | 93 | 95 | 95 | 95 | 95 | 88 |
| 1.5–< 2.0 | 44 | 45 | 45 | 45 | 45 | 44 |
| 2.0–< 2.5 | 24 | 24 | 24 | 24 | 24 | 23 |
| 2.5–< 3.0 | 8 | 8 | 8 | 8 | 8 | 8 |
| 3.0–< 3.5 | 4 | 4 | 4 | 4 | 4 | 4 |
| >= 3.5 | 6 | 6 | 6 | 6 | 6 | 6 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Five—Mathematics Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | 1 | 2 | 2 | N/A | N/A | N/A |
| -3.0–< -2.5 | 14 | 15 | 14 | 11 | 6 | 4 |
| -2.5–< -2.0 | 23 | 23 | 23 | 21 | 9 | 7 |
| -2.0–< -1.5 | 28 | 29 | 29 | 27 | 20 | 10 |
| -1.5–< -1.0 | 42 | 42 | 42 | 42 | 42 | 34 |
| -1.0–< -0.5 | 104 | 104 | 104 | 104 | 104 | 81 |
| -0.5–< 0 | 159 | 161 | 161 | 161 | 161 | 128 |
| 0–< 0.5 | **\*269** | **\*273** | **\*273** | **\*273** | **\*273** | **\*233** |
| 0.5–< 1.0 | 213 | 218 | 218 | 218 | 218 | 195 |
| 1.0–< 1.5 | 150 | 160 | 160 | 160 | 160 | 157 |
| 1.5–< 2.0 | 128 | 131 | 131 | 131 | 131 | 128 |
| 2.0–< 2.5 | 57 | 58 | 58 | 58 | 58 | 58 |
| 2.5–< 3.0 | 22 | 24 | 24 | 24 | 24 | 24 |
| 3.0–< 3.5 | 8 | 8 | 8 | 8 | 8 | 8 |
| >= 3.5 | 11 | 11 | 11 | 11 | 11 | 10 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Six—Mathematics Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| -3.5–< -3.0 | 1 | 1 | 1 | N/A | N/A | N/A |
| -3.0–< -2.5 | 7 | 7 | 7 | 6 | 5 | 5 |
| -2.5–< -2.0 | 17 | 17 | 17 | 17 | 7 | 7 |
| -2.0–< -1.5 | 32 | 32 | 32 | 32 | 27 | 26 |
| -1.5–< -1.0 | 32 | 32 | 32 | 32 | 31 | 31 |
| -1.0–< -0.5 | 60 | 60 | 60 | 60 | 60 | 60 |
| -0.5–< 0 | 69 | 69 | 69 | 69 | 69 | 69 |
| 0–< 0.5 | 107 | 107 | 107 | 107 | 107 | 107 |
| 0.5–< 1.0 | 176 | 176 | 176 | 176 | 176 | 176 |
| 1.0–< 1.5 | **\*188** | **\*188** | **\*188** | **\*188** | **\*188** | **\*188** |
| 1.5–< 2.0 | 165 | 165 | 165 | 165 | 165 | 165 |
| 2.0–< 2.5 | 124 | 124 | 124 | 124 | 124 | 124 |
| 2.5–< 3.0 | 57 | 57 | 57 | 57 | 57 | 57 |
| 3.0–< 3.5 | 34 | 34 | 34 | 34 | 34 | 34 |
| >= 3.5 | 50 | 50 | 50 | 50 | 50 | 50 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Seven—Mathematics Non-PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | 11 | 11 | 11 | 11 | 11 | 7 | 7 |
| -1.5–< -1.0 | 13 | 13 | 13 | 13 | 11 | 9 | 9 |
| -1.0–< -0.5 | 17 | 17 | 17 | 17 | 17 | 16 | 14 |
| -0.5–< 0 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| 0–< 0.5 | 50 | 50 | 50 | 50 | 50 | 50 | 49 |
| 0.5–< 1.0 | 87 | 87 | 87 | 87 | 87 | 87 | 82 |
| 1.0–< 1.5 | 155 | 155 | 155 | 155 | 155 | 155 | 147 |
| 1.5–< 2.0 | **\*196** | **\*197** | **\*197** | **\*197** | **\*197** | **\*197** | **\*184** |
| 2.0–< 2.5 | 175 | 175 | 175 | 175 | 175 | 175 | 174 |
| 2.5–< 3.0 | 143 | 143 | 143 | 143 | 143 | 143 | 142 |
| 3.0–< 3.5 | 62 | 63 | 63 | 63 | 63 | 63 | 63 |
| >= 3.5 | 79 | 79 | 79 | 79 | 79 | 79 | 73 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Eight—Mathematics Non-PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | 11 | 11 | 11 | 9 | 9 | 5 | 5 |
| -1.5–< -1.0 | 17 | 17 | 17 | 17 | 17 | 14 | 12 |
| -1.0–< -0.5 | 37 | 37 | 37 | 37 | 37 | 34 | 34 |
| -0.5–< 0 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| 0–< 0.5 | 54 | 54 | 54 | 54 | 54 | 54 | 53 |
| 0.5–< 1.0 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 1.0–< 1.5 | 77 | 77 | 77 | 77 | 77 | 77 | 76 |
| 1.5–< 2.0 | 100 | 100 | 100 | 100 | 100 | 100 | 99 |
| 2.0–< 2.5 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| 2.5–< 3.0 | 113 | 113 | 113 | 113 | 113 | 113 | 113 |
| 3.0–< 3.5 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| >= 3.5 | **\*183** | **\*183** | **\*183** | **\*183** | **\*183** | **\*183** | **\*181** |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Eleven—Mathematics Non-PT Items

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| < -3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -3.5–< -3.0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| -2.0–< -1.5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 |
| -1.5–< -1.0 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 20 |
| -1.0–< -0.5 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 31 |
| -0.5–< 0 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 37 |
| 0–< 0.5 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 71 |
| 0.5–< 1.0 | 132 | 135 | 135 | 135 | 135 | 135 | 135 | 109 |
| 1.0–< 1.5 | 191 | 194 | 194 | 194 | 194 | 194 | 194 | 167 |
| 1.5–< 2.0 | 262 | 269 | 269 | 269 | 269 | 269 | 269 | 219 |
| 2.0–< 2.5 | 330 | 349 | 349 | 349 | 349 | 349 | 349 | 289 |
| 2.5–< 3.0 | 362 | 384 | 384 | 384 | 384 | 384 | 384 | 337 |
| 3.0–< 3.5 | 331 | 346 | 346 | 346 | 346 | 346 | 345 | 313 |
| >= 3.5 | **\*619** | **\*656** | **\*656** | **\*656** | **\*656** | **\*656** | **\*654** | **\*577** |

**Note:** In table 8.A.57 through table 8.A.70, the mode of each distribution is **highlighted** in **bold** text and indicated using an asterisk (\*).

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Three—ELA PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0.4–< 0.6 | 17 | 17 | 17 | 17 | 17 | 17 |
| 0.6–< 0.8 | **\*18** | **\*18** | **\*18** | **\*18** | **\*18** | **\*18** |
| 0.8–< 1.0 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1.0–< 1.2 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.2–< 1.4 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Four—ELA PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0.4–< 0.6 | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** |
| 0.6–< 0.8 | 16 | 16 | 16 | 16 | 16 | 16 |
| 0.8–< 1.0 | 14 | 14 | 14 | 14 | 14 | 14 |
| 1.0–< 1.2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.2–< 1.4 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Five—ELA PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0.4–< 0.6 | 20 | 20 | 20 | 20 | 20 | 20 |
| 0.6–< 0.8 | **\*23** | **\*23** | **\*23** | **\*23** | **\*23** | **\*23** |
| 0.8–< 1.0 | 15 | 15 | 15 | 15 | 15 | 15 |
| 1.0–< 1.2 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1.2–< 1.4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Six—ELA PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0.4–< 0.6 | 13 | 13 | 13 | 13 | 13 | 13 |
| 0.6–< 0.8 | **\*14** | **\*14** | **\*14** | **\*14** | **\*14** | **\*14** |
| 0.8–< 1.0 | 13 | 13 | 13 | 13 | 13 | 13 |
| 1.0–< 1.2 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1.2–< 1.4 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Seven—ELA PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.4–< 0.6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 0.6–< 0.8 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 0.8–< 1.0 | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** |
| 1.0–< 1.2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.2–< 1.4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1.4–< 1.6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.6–< 1.8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Eight—ELA PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 0.4–< 0.6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0.6–< 0.8 | **\*25** | **\*25** | **\*25** | **\*25** | **\*25** | **\*25** | **\*25** |
| 0.8–< 1.0 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 1.0–< 1.2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1.2–< 1.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Eleven—ELA PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0.4–< 0.6 | **\*35** | **\*35** | **\*35** | **\*35** | **\*35** | **\*35** | **\*35** |
| 0.6–< 0.8 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 0.8–< 1.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1.0–< 1.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.2–< 1.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Three—Mathematics PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0.2–< 0.4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0.4–< 0.6 | 14 | 14 | 14 | 14 | 14 | 14 |
| 0.6–< 0.8 | 18 | 18 | 18 | 18 | 18 | 18 |
| 0.8–< 1.0 | 21 | 21 | 21 | 21 | 21 | 21 |
| 1.0–< 1.2 | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** |
| 1.2–< 1.4 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1.4–< 1.6 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Four—Mathematics PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.4–< 0.6 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0.6–< 0.8 | **\*44** | **\*44** | **\*44** | **\*44** | **\*44** | **\*44** |
| 0.8–< 1.0 | 29 | 29 | 29 | 29 | 29 | 29 |
| 1.0–< 1.2 | 16 | 16 | 16 | 16 | 16 | 16 |
| 1.2–< 1.4 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1.4–< 1.6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Five—Mathematics PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 8 | 8 | 8 | 8 | 8 | 8 |
| 0.4–< 0.6 | 23 | 23 | 23 | 23 | 23 | 23 |
| 0.6–< 0.8 | **\*35** | **\*35** | **\*35** | **\*35** | **\*35** | **\*35** |
| 0.8–< 1.0 | 24 | 24 | 24 | 24 | 24 | 24 |
| 1.0–< 1.2 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1.2–< 1.4 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Six—Mathematics PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.4–< 0.6 | 25 | 25 | 25 | 25 | 25 | 25 |
| 0.6–< 0.8 | **\*45** | **\*45** | **\*45** | **\*45** | **\*45** | **\*45** |
| 0.8–< 1.0 | 14 | 14 | 14 | 14 | 14 | 14 |
| 1.0–< 1.2 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1.2–< 1.4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Seven—Mathematics PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0.2–< 0.4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0.4–< 0.6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0.6–< 0.8 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| 0.8–< 1.0 | **\*23** | **\*23** | **\*23** | **\*23** | **\*23** | **\*23** | **\*23** |
| 1.0–< 1.2 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 1.2–< 1.4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1.4–< 1.6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1.6–< 1.8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Eight—Mathematics PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0.4–< 0.6 | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** |
| 0.6–< 0.8 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 0.8–< 1.0 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 1.0–< 1.2 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 1.2–< 1.4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *a*-values Conditional on Ability for Grade Eleven—Mathematics PT Items

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 0.4–< 0.6 | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** |
| 0.6–< 0.8 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 0.8–< 1.0 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1.0–< 1.2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.2–< 1.4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.6–< 1.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

**Note:** In table 8.A.71 through table 8.A.84, the mode of each distribution is **highlighted** in **bold** text and indicated using an asterisk (\*).

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Three—ELA PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| -1.5–< -1.0 | 7 | 7 | 7 | 7 | 7 | 7 |
| -1.0–< -0.5 | **\*13** | **\*13** | **\*13** | **\*13** | **\*13** | **\*13** |
| -0.5–< 0 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0–< 0.5 | **\*13** | **\*13** | **\*13** | **\*13** | **\*13** | **\*13** |
| 0.5–< 1.0 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1.0–< 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1.5–< 2.0 | 2 | 2 | 2 | 2 | 2 | 2 |
| 2.0–< 2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Four—ELA PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5 –< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0 –< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5 –< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0 –< -1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| -1.5 –< -1.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| -1.0 –< -0.5 | 3 | 3 | 3 | 3 | 3 | 3 |
| -0.5–< 0 | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** |
| 0–< 0.5 | 13 | 13 | 13 | 13 | 13 | 13 |
| 0.5–< 1.0 | 12 | 12 | 12 | 12 | 12 | 12 |
| 1.0–< 1.5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1.5–< 2.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2.0–< 2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Five—ELA PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| -1.5–< -1.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0–< -0.5 | 3 | 3 | 3 | 3 | 3 | 3 |
| -0.5–< 0 | 20 | 20 | 20 | 20 | 20 | 20 |
| 0–< 0.5 | **\*27** | **\*27** | **\*27** | **\*27** | **\*27** | **\*27** |
| 0.5–< 1.0 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1.0–< 1.5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.5–< 2.0 | 7 | 7 | 7 | 7 | 7 | 7 |
| 2.0–< 2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Six—ELA PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.5–< -1.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0–< -0.5 | 3 | 3 | 3 | 3 | 3 | 3 |
| -0.5–< 0 | **\*14** | **\*14** | **\*14** | **\*14** | **\*14** | **\*14** |
| 0–< 0.5 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0.5–< 1.0 | 12 | 12 | 12 | 12 | 12 | 12 |
| 1.0–< 1.5 | 12 | 12 | 12 | 12 | 12 | 12 |
| 1.5–< 2.0 | 6 | 6 | 6 | 6 | 6 | 6 |
| 2.0–< 2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Seven—ELA PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5 –< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0 –< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5 –< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0 –< -1.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.5 –< -1.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0 –< -0.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -0.5–< 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0–< 0.5 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 0.5–< 1.0 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 1.0–< 1.5 | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** |
| 1.5–< 2.0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 2.0–< 2.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Eight—ELA PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.5–< -1.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0–< -0.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -0.5–< 0 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 0–< 0.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0.5–< 1.0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1.0–< 1.5 | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** |
| 1.5–< 2.0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 2.0–< 2.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| >= 3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Eleven—ELA PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.5–< -1.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0–< -0.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -0.5–< 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0–< 0.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0.5–< 1.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1.0–< 1.5 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 1.5–< 2.0 | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** |
| 2.0–< 2.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 2.5–< 3.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3.0–< 3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| >= 3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Three—Mathematics PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | 10 | 10 | 10 | 10 | 10 | 10 |
| -1.5–< -1.0 | **\*24** | **\*24** | **\*24** | **\*24** | **\*24** | **\*24** |
| -1.0–< -0.5 | 20 | 20 | 20 | 20 | 20 | 20 |
| -0.5–< 0 | 20 | 20 | 20 | 20 | 20 | 20 |
| 0–< 0.5 | 13 | 13 | 13 | 13 | 13 | 13 |
| 0.5–< 1.0 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1.0–< 1.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| 1.5–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 2.0–< 2.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Four—Mathematics PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | 8 | 8 | 8 | 8 | 8 | 8 |
| -1.5–< -1.0 | 14 | 14 | 14 | 14 | 14 | 14 |
| -1.0–< -0.5 | 16 | 16 | 16 | 16 | 16 | 16 |
| -0.5–< 0 | 11 | 11 | 11 | 11 | 11 | 11 |
| 0–< 0.5 | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** |
| 0.5–< 1.0 | 20 | 20 | 20 | 20 | 20 | 20 |
| 1.0–< 1.5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.5–< 2.0 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2.0–< 2.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Five—Mathematics PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | 3 | 3 | 3 | 3 | 3 | 3 |
| -2.0–< -1.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.5–< -1.0 | 5 | 5 | 5 | 5 | 5 | 5 |
| -1.0–< -0.5 | 3 | 3 | 3 | 3 | 3 | 3 |
| -0.5–< 0 | 8 | 8 | 8 | 8 | 8 | 8 |
| 0–< 0.5 | 10 | 10 | 10 | 10 | 10 | 10 |
| 0.5–< 1.0 | **\*34** | **\*34** | **\*34** | **\*34** | **\*34** | **\*34** |
| 1.0–< 1.5 | 21 | 21 | 21 | 21 | 21 | 21 |
| 1.5–< 2.0 | 11 | 11 | 11 | 11 | 11 | 11 |
| 2.0–< 2.5 | 7 | 7 | 7 | 7 | 7 | 7 |
| 2.5–< 3.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | 2 | 2 | 2 | 2 | 2 | 2 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Six—Mathematics PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.5–< -1.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0–< -0.5 | 15 | 15 | 15 | 15 | 15 | 15 |
| -0.5–< 0 | 12 | 12 | 12 | 12 | 12 | 12 |
| 0–< 0.5 | 13 | 13 | 13 | 13 | 13 | 13 |
| 0.5–< 1.0 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1.0–< 1.5 | 14 | 14 | 14 | 14 | 14 | 14 |
| 1.5–< 2.0 | **\*20** | **\*20** | **\*20** | **\*20** | **\*20** | **\*20** |
| 2.0–< 2.5 | 10 | 10 | 10 | 10 | 10 | 10 |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Seven—Mathematics PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.5–< -1.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0–< -0.5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| -0.5–< 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0–< 0.5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0.5–< 1.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1.0–< 1.5 | **\*21** | **\*21** | **\*21** | **\*21** | **\*21** | **\*21** | **\*21** |
| 1.5–< 2.0 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 2.0–< 2.5 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 2.5–< 3.0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 3.0–< 3.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| >= 3.5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Eight—Mathematics PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -1.5–< -1.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -1.0–< -0.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -0.5–< 0 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0–< 0.5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0.5–< 1.0 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.0–< 1.5 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 1.5–< 2.0 | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** | **\*22** |
| 2.0–< 2.5 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 2.5–< 3.0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 3.0–< 3.5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.A. Distribution of IRT *b*-values Conditional on Ability for Grade Eleven—Mathematics PT Items

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| < -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.5–< -3.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -3.0–< -2.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.5–< -1.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0–< -0.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| -0.5–< 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0–< 0.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.5–< 1.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1.0–< 1.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1.5–< 2.0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 2.0–< 2.5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 2.5–< 3.0 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 3.0–< 3.5 | **\*15** | **\*15** | **\*15** | **\*15** | **\*15** | **\*15** | **\*15** | **\*15** |
| >= 3.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Table 8.A. PT Item Statistics for Grade Three—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295223 | 3 | 1.00 | -0.07 | 1.25, 0.03, -1.28 |
| VH295224 | 2 | 1.09 | -0.69 | 0.45, -0.45 |
| VH295345 | 3 | 0.67 | -0.78 | 1.95, 0.04, -1.99 |
| VH295346 | 2 | 0.73 | -1.41 | 0.82, -0.82 |
| VH295419 | 3 | 0.62 | -0.66 | 1.85, -0.16, -1.69 |
| VH295420 | 2 | 0.67 | -1.28 | 0.47, -0.47 |
| VH295562 | 4 | 0.60 | 0.00 | 0.39, 1.47, -0.13, -1.73 |
| VH295563 | 2 | 0.95 | -0.56 | 0.22, -0.22 |
| VH295660 | 3 | 0.86 | -0.82 | 1.76, -0.02, -1.74 |
| VH295661 | 2 | 0.86 | -1.26 | 0.75, -0.75 |
| VH295671 | 3 | 0.55 | 0.06 | 1.54, 0.19, -1.73 |
| VH295672 | 2 | 0.60 | -0.72 | 0.53, -0.53 |
| VH295685 | 4 | 0.54 | 0.13 | 0.74, 1.33, -0.18, -1.89 |
| VH295686 | 2 | 0.80 | -0.65 | 0.10, -0.10 |
| VH295714 | 3 | 0.66 | -0.03 | 1.02, 0.40, -1.42 |
| VH295715 | 2 | 0.75 | -0.62 | 0.35, -0.35 |
| VH295881 | 4 | 0.64 | 0.03 | 0.76, 1.07, -0.24, -1.59 |
| VH295882 | 2 | 1.03 | -0.66 | 0.16, -0.16 |
| VH295913 | 3 | 0.71 | -0.36 | 1.40, -0.01, -1.39 |
| VH295914 | 2 | 0.86 | -0.93 | 0.38, -0.38 |
| VH295951 | 4 | 0.38 | 0.85 | -0.74, 1.91, 0.08, -1.25 |
| VH295952 | 2 | 0.60 | 0.19 | -0.28, 0.28 |
| VH295998 | 3 | 0.58 | -0.44 | 1.64, -0.11, -1.53 |
| VH295999 | 2 | 0.63 | -1.10 | 0.36, -0.36 |
| VH296069 | 4 | 0.49 | 0.62 | 0.12, 1.42, 0.17, -1.71 |
| VH296070 | 2 | 0.76 | -0.11 | -0.03, 0.03 |
| VH945445 | 4 | 0.36 | 0.07 | -0.35, 2.12, 0.16, -1.92 |
| VH945446 | 2 | 0.61 | -0.66 | 0.13, -0.13 |
| VH945455 | 4 | 0.45 | 0.23 | 2.65, 0.78, -0.51, -2.92 |
| VH945456 | 2 | 0.51 | -1.52 | 0.45, -0.45 |
| VH945559 | 4 | 0.52 | 0.19 | 2.00, 0.88, -1.04, -1.85 |
| VH945560 | 2 | 0.55 | -1.29 | 0.28, -0.28 |
| VH945569 | 4 | 0.28 | 0.79 | -0.81, 1.87, -0.01, -1.05 |
| VH945570 | 2 | 0.46 | -0.05 | -0.42, 0.42 |
| VH945580 | 4 | 0.48 | 0.09 | 1.87, 0.84, -0.71, -1.99 |
| VH945581 | 2 | 0.54 | -1.39 | 0.18, -0.18 |
| VH945567 | 1 | 0.41 | -0.31 | N/A |
| VH295674 | 2 | 0.55 | -0.19 | 0.13, -0.13 |

Table 8.A.85 *(continuation)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295225 | 2 | 0.90 | 0.80 | 0.08, -0.08 |
| VH945557 | 1 | 0.47 | 1.86 | N/A |
| VH295995 | 2 | 0.98 | 1.02 | 0.40, -0.40 |
| VH295658 | 2 | 1.02 | 0.24 | 0.42, -0.42 |
| VH945578 | 2 | 0.71 | 0.28 | 0.76, -0.76 |
| VH295916 | 1 | 0.61 | 0.04 | N/A |
| VH295947 | 2 | 0.38 | -0.57 | 0.57, -0.57 |
| VH295877 | 2 | 0.69 | 0.61 | 0.42, -0.42 |
| VH295417 | 1 | 0.62 | 1.59 | N/A |
| VH945453 | 1 | 0.40 | -1.25 | N/A |
| VH295343 | 2 | 0.99 | 0.66 | 0.43, -0.43 |
| VH295564 | 2 | 0.64 | 0.36 | 0.91, -0.91 |
| VH296066 | 1 | 0.86 | 0.01 | N/A |
| VH295688 | 2 | 0.91 | 1.18 | 0.50, -0.50 |
| VH945443 | 1 | 0.64 | 0.65 | N/A |
| VH295711 | 2 | 0.47 | -0.73 | N/A |

Table 8.A. PT Item Statistics for Grade Four—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295259 | 4 | 0.41 | 0.10 | -0.21, 1.51, 0.11, -1.41 |
| VH295260 | 2 | 0.82 | -0.08 | 0.47, -0.47 |
| VH295352 | 4 | 0.52 | -0.06 | 0.63, 1.05, -0.43, -1.25 |
| VH295353 | 2 | 0.87 | -0.14 | 0.42, -0.42 |
| VH295427 | 4 | 0.39 | 0.97 | 2.10, 1.67, -0.61, -3.16 |
| VH295428 | 2 | 0.53 | -0.25 | -0.04, 0.04 |
| VH295460 | 3 | 0.74 | -0.49 | 0.96, 0.31, -1.28 |
| VH295461 | 2 | 0.98 | -0.38 | 0.45, -0.45 |
| VH295494 | 4 | 0.61 | 0.44 | 2.26, 1.03, -0.80, -2.48 |
| VH295495 | 2 | 0.87 | -0.36 | 0.43, -0.43 |
| VH295523 | 4 | 0.60 | 0.36 | 1.49, 1.33, -0.47, -2.34 |
| VH295524 | 2 | 0.85 | -0.39 | 0.27, -0.27 |
| VH295632 | 3 | 0.52 | -0.09 | 0.85, 0.70, -1.55 |
| VH295633 | 2 | 0.77 | -0.15 | 0.39, -0.39 |
| VH295645 | 4 | 0.49 | 0.20 | 0.29, 1.19, -0.20, -1.29 |
| VH295646 | 2 | 0.90 | -0.02 | 0.26, -0.26 |
| VH295708 | 3 | 0.65 | -0.26 | 0.74, 0.41, -1.15 |
| VH295709 | 2 | 0.90 | -0.30 | 0.40, -0.40 |
| VH295732 | 4 | 0.45 | 0.59 | 1.54, 1.38, -0.23, -2.68 |
| VH295733 | 2 | 0.67 | -0.36 | 0.01, -0.01 |
| VH295776 | 4 | 0.53 | -0.10 | 0.86, 1.00, -0.54, -1.31 |
| VH295777 | 2 | 0.85 | -0.27 | 0.44, -0.44 |
| VH295782 | 4 | 0.43 | 0.34 | 0.49, 1.24, 0.04, -1.77 |
| VH295783 | 2 | 0.77 | -0.04 | 0.33, -0.33 |
| VH295788 | 3 | 0.63 | -0.46 | 0.83, 0.37, -1.20 |
| VH295789 | 2 | 0.94 | -0.31 | 0.52, -0.52 |
| VH295859 | 4 | 0.55 | 0.16 | 0.21, 1.19, -0.18, -1.22 |
| VH295860 | 2 | 0.90 | -0.19 | 0.15, -0.15 |
| VH295866 | 4 | 0.49 | 0.24 | 0.45, 1.17, -0.06, -1.56 |
| VH295867 | 2 | 0.91 | 0.05 | 0.31, -0.31 |
| VH295893 | 4 | 0.47 | 0.61 | 1.95, 1.55, -0.83, -2.67 |
| VH295894 | 2 | 0.65 | -0.44 | 0.28, -0.28 |
| VH295957 | 3 | 0.44 | -0.15 | 1.28, 0.63, -1.90 |
| VH295958 | 2 | 0.66 | -0.34 | 0.16, -0.16 |
| VH945430 | 4 | 0.38 | 0.30 | -0.43, 1.30, 0.10, -0.96 |
| VH945431 | 2 | 0.58 | -0.32 | -0.35, 0.35 |
| VH945440 | 4 | 0.41 | 1.07 | 2.57, 1.57, -0.77, -3.37 |

Table 8.A.86 *(continuation)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH945441 | 2 | 0.48 | -0.53 | -0.10, 0.10 |
| VH945564 | 4 | 0.49 | 0.85 | 2.43, 1.36, -0.81, -2.98 |
| VH945565 | 2 | 0.55 | -0.58 | 0.00, 0.00 |
| VH945589 | 4 | 0.37 | 0.04 | -0.05, 1.45, -0.39, -1.01 |
| VH945590 | 2 | 0.62 | -0.52 | -0.07, 0.07 |
| VH295492 | 2 | 1.03 | 0.78 | 0.97, -0.97 |
| VH295705 | 2 | 0.89 | 0.77 | 0.27, -0.27 |
| VH295791 | 1 | 0.41 | 0.13 | N/A |
| VH295423 | 2 | 0.80 | 0.51 | 0.62, -0.62 |
| VH295863 | 2 | 0.93 | 1.00 | 0.33, -0.33 |
| VH295520 | 2 | 0.48 | 0.10 | 0.55, -0.55 |
| VH295457 | 1 | 0.48 | -1.15 | N/A |
| VH295629 | 2 | 0.42 | 1.76 | 0.16, -0.16 |
| VH945438 | 2 | 0.62 | 0.93 | 1.04, -1.04 |
| VH295642 | 1 | 0.40 | -1.52 | N/A |
| VH945562 | 1 | 0.49 | -1.76 | N/A |
| VH295774 | 1 | 0.70 | 0.50 | N/A |
| VH295861 | 1 | 0.52 | 1.41 | N/A |
| VH295954 | 2 | 0.58 | 0.62 | -0.05, 0.05 |
| VH945428 | 1 | 0.46 | 1.48 | N/A |
| VH295779 | 2 | 0.51 | 0.97 | 0.68, -0.68 |
| VH295895 | 2 | 0.67 | -0.48 | 0.23, -0.23 |
| VH945587 | 2 | 0.50 | 0.57 | 0.50, -0.50 |
| VH295730 | 2 | 0.53 | 0.03 | -0.89, 0.89 |
| VH295257 | 2 | 0.71 | 1.07 | 0.56, -0.56 |
| VH295349 | 2 | 0.60 | -0.16 | 0.14, -0.14 |

Table 8.A. PT Item Statistics for Grade Five—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295216 | 4 | 0.54 | 0.30 | 0.63, 1.85, -0.21, -2.27 |
| VH295217 | 2 | 1.03 | 0.05 | 0.63, -0.63 |
| VH295231 | 4 | 0.65 | 0.07 | 1.86, 0.83, -0.65, -2.03 |
| VH295232 | 2 | 0.81 | -0.29 | 0.95, -0.95 |
| VH295239 | 4 | 0.73 | 0.14 | 1.42, 0.84, -0.44, -1.82 |
| VH295240 | 2 | 1.00 | 0.07 | 0.70, -0.70 |
| VH295407 | 4 | 0.59 | -0.10 | 2.19, 0.67, -0.72, -2.14 |
| VH295408 | 2 | 0.77 | -0.43 | 1.02, -1.02 |
| VH295432 | 4 | 0.66 | 0.09 | 1.89, 0.89, -0.62, -2.16 |
| VH295433 | 2 | 0.98 | -0.40 | 0.89, -0.89 |
| VH295453 | 4 | 0.57 | 0.05 | 2.34, 0.75, -0.66, -2.42 |
| VH295454 | 2 | 0.82 | -0.42 | 1.06, -1.06 |
| VH295481 | 4 | 0.54 | 0.04 | 0.55, 1.37, -0.22, -1.70 |
| VH295482 | 2 | 1.06 | -0.04 | 0.74, -0.74 |
| VH295544 | 4 | 0.56 | 0.24 | 2.05, 0.80, -0.55, -2.30 |
| VH295545 | 2 | 0.87 | -0.22 | 0.94, -0.94 |
| VH295741 | 4 | 0.74 | 0.21 | 0.75, 1.30, -0.32, -1.72 |
| VH295742 | 2 | 1.25 | 0.07 | 0.79, -0.79 |
| VH295794 | 4 | 0.64 | 0.29 | 2.21, 0.77, -0.40, -2.58 |
| VH295795 | 2 | 0.91 | -0.22 | 0.75, -0.75 |
| VH295811 | 4 | 0.64 | 0.24 | 1.07, 1.20, -0.10, -2.17 |
| VH295812 | 2 | 1.14 | -0.04 | 0.90, -0.90 |
| VH295836 | 4 | 0.61 | 0.28 | 0.58, 1.49, -0.27, -1.80 |
| VH295837 | 2 | 1.12 | 0.03 | 0.77, -0.77 |
| VH295901 | 4 | 0.41 | 1.00 | -0.73, 2.33, 0.26, -1.86 |
| VH295902 | 2 | 0.75 | 0.40 | 0.09, -0.09 |
| VH295921 | 4 | 0.57 | 0.29 | 0.49, 1.43, -0.06, -1.86 |
| VH295922 | 2 | 1.07 | -0.04 | 0.71, -0.71 |
| VH295972 | 4 | 0.59 | 0.21 | 2.39, 0.67, -0.69, -2.37 |
| VH295973 | 2 | 0.91 | -0.22 | 0.85, -0.85 |
| VH296034 | 4 | 0.70 | 0.37 | 1.79, 0.95, -0.53, -2.20 |
| VH296035 | 2 | 1.08 | 0.03 | 0.64, -0.64 |
| VH296048 | 4 | 0.56 | -0.04 | 0.04, 1.56, -0.11, -1.49 |
| VH296049 | 2 | 0.98 | -0.07 | 0.52, -0.52 |
| VH296073 | 4 | 0.66 | 0.14 | 2.09, 0.72, -0.44, -2.38 |
| VH296075 | 2 | 0.91 | -0.28 | 0.91, -0.91 |
| VH296082 | 4 | 0.58 | 0.11 | 2.42, 0.83, -0.70, -2.55 |

Table 8.A.87 *(continuation)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH296083 | 2 | 0.80 | -0.34 | 1.13, -1.13 |
| VH296091 | 4 | 0.62 | 0.24 | 0.82, 1.69, -0.35, -2.16 |
| VH296092 | 2 | 0.96 | -0.12 | 0.68, -0.68 |
| VH945410 | 4 | 0.28 | 0.62 | 2.06, 1.82, -0.77, -3.10 |
| VH945411 | 2 | 0.26 | -1.69 | -1.43, 1.43 |
| VH945450 | 4 | 0.26 | 0.95 | 1.54, 2.06, -0.35, -3.26 |
| VH945451 | 2 | 0.30 | -0.89 | -0.15, 0.15 |
| VH945518 | 4 | 0.29 | 0.87 | 2.00, 1.59, -0.33, -3.26 |
| VH945519 | 2 | 0.33 | -0.97 | 0.19, -0.19 |
| VH945602 | 4 | 0.37 | -0.10 | -1.11, 1.76, 0.65, -1.30 |
| VH945603 | 2 | 0.69 | -0.02 | 0.56, -0.56 |
| VH295796 | 1 | 0.60 | 1.40 | N/A |
| VH945408 | 2 | 0.56 | 1.24 | 0.42, -0.42 |
| VH945448 | 1 | 0.61 | 1.55 | N/A |
| VH296032 | 2 | 0.78 | 0.87 | 0.48, -0.48 |
| VH295213 | 1 | 0.65 | 0.21 | N/A |
| VH295235 | 1 | 0.59 | 1.58 | N/A |
| VH296088 | 2 | 0.68 | 0.44 | -0.03, 0.03 |
| VH945600 | 1 | 0.55 | 1.64 | N/A |
| VH295739 | 2 | 0.81 | 1.52 | 0.82, -0.82 |
| VH296077 | 2 | 0.94 | 0.95 | 0.29, -0.29 |
| VH295924 | 1 | 0.40 | -0.66 | N/A |
| VH296080 | 2 | 0.50 | -0.34 | 0.30, -0.30 |
| VH295903 | 1 | 0.63 | 1.66 | N/A |
| VH296044 | 2 | 0.72 | 0.74 | 0.55, -0.55 |
| VH295229 | 2 | 0.58 | 1.57 | 0.89, -0.89 |
| VH295807 | 2 | 0.75 | 0.38 | 0.50, -0.50 |
| VH295541 | 2 | 0.87 | 0.82 | 0.47, -0.47 |
| VH295450 | 2 | 0.79 | 0.76 | 0.37, -0.37 |
| VH295838 | 1 | 0.50 | 0.45 | N/A |
| VH295404 | 2 | 0.80 | 0.88 | 0.29, -0.29 |
| VH945516 | 2 | 0.47 | 1.68 | 0.49, -0.49 |
| VH295478 | 1 | 0.48 | 1.42 | N/A |
| VH295968 | 2 | 0.87 | 0.90 | 0.45, -0.45 |
| VH295430 | 2 | 0.67 | 0.00 | 0.59, -0.59 |

Table 8.A. PT Item Statistics for Grade Six—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295317 | 4 | 1.05 | 0.66 | 1.94, 0.74, -0.71, -1.97 |
| VH295318 | 2 | 1.30 | -0.06 | 0.35, -0.35 |
| VH295440 | 4 | 0.69 | 0.37 | 0.95, 0.97, -0.35, -1.57 |
| VH295441 | 2 | 1.11 | -0.03 | 0.32, -0.32 |
| VH295558 | 4 | 0.58 | 0.39 | 0.31, 1.34, -0.17, -1.48 |
| VH295559 | 2 | 1.03 | 0.12 | 0.26, -0.26 |
| VH295584 | 4 | 0.88 | 0.74 | 1.51, 1.04, -0.69, -1.86 |
| VH295585 | 2 | 1.01 | -0.03 | 0.22, -0.22 |
| VH295664 | 4 | 0.74 | 0.42 | 0.50, 1.14, -0.19, -1.45 |
| VH295665 | 2 | 1.34 | -0.09 | 0.21, -0.21 |
| VH295681 | 4 | 0.83 | 0.67 | 1.30, 1.07, -0.57, -1.81 |
| VH295682 | 2 | 1.14 | -0.14 | 0.25, -0.25 |
| VH295694 | 4 | 0.63 | 0.72 | 1.91, 0.76, -0.74, -1.93 |
| VH295695 | 2 | 0.88 | -0.05 | 0.32, -0.32 |
| VH295755 | 4 | 0.79 | 0.46 | 2.02, 0.63, -0.84, -1.80 |
| VH295756 | 2 | 0.91 | -0.21 | 0.30, -0.30 |
| VH295825 | 4 | 0.77 | 0.58 | 2.19, 1.31, -0.76, -2.74 |
| VH295826 | 2 | 0.95 | -0.44 | 0.38, -0.38 |
| VH295874 | 4 | 0.69 | 0.60 | 0.13, 1.24, -0.19, -1.17 |
| VH295875 | 2 | 1.10 | 0.13 | -0.08, 0.08 |
| VH295937 | 4 | 0.96 | 0.65 | 1.59, 0.67, -0.64, -1.62 |
| VH295938 | 2 | 1.09 | 0.00 | 0.29, -0.29 |
| VH295985 | 4 | 0.94 | 0.53 | 2.16, 1.10, -0.90, -2.37 |
| VH295986 | 2 | 1.07 | -0.30 | 0.41, -0.41 |
| VH296013 | 4 | 0.93 | 0.77 | 1.61, 0.79, -0.71, -1.69 |
| VH296014 | 2 | 1.15 | -0.04 | 0.31, -0.31 |
| VH945508 | 4 | 0.41 | 1.20 | 2.58, 1.22, -1.09, -2.71 |
| VH945509 | 2 | 0.45 | -0.59 | -0.03, 0.03 |
| VH945513 | 4 | 0.46 | 1.08 | 2.38, 1.25, -0.70, -2.92 |
| VH945514 | 2 | 0.55 | -0.56 | 0.14, -0.14 |
| VH945533 | 4 | 0.37 | 0.95 | -0.71, 1.96, 0.76, -2.01 |
| VH945534 | 2 | 0.55 | 0.03 | -0.67, 0.67 |
| VH945543 | 4 | 0.46 | 1.11 | 2.40, 1.04, -1.13, -2.31 |
| VH945544 | 2 | 0.49 | -0.66 | -0.15, 0.15 |
| VH945548 | 4 | 0.39 | 1.38 | 2.62, 1.15, -0.86, -2.91 |
| VH945549 | 2 | 0.44 | -0.39 | -0.06, 0.06 |
| VH296009 | 1 | 0.92 | 1.66 | N/A |

Table 8.A.88 *(continuation)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295983 | 2 | 0.67 | 0.61 | 0.52, -0.52 |
| VH295691 | 2 | 0.90 | 1.48 | 0.68, -0.68 |
| VH945546 | 1 | 0.61 | 1.42 | N/A |
| VH295752 | 2 | 0.89 | 1.32 | 0.44, -0.44 |
| VH295315 | 2 | 0.96 | 1.62 | 0.30, -0.30 |
| VH295872 | 2 | 0.74 | 0.79 | 0.32, -0.32 |
| VH945531 | 1 | 0.60 | 1.59 | N/A |
| VH295582 | 1 | 1.05 | 1.71 | N/A |
| VH945511 | 2 | 0.48 | 1.63 | -0.48, 0.48 |
| VH295437 | 2 | 0.73 | 1.49 | -0.02, 0.02 |
| VH945541 | 2 | 0.48 | -0.08 | 0.45, -0.45 |
| VH295821 | 2 | 0.78 | 1.10 | 0.34, -0.34 |
| VH295933 | 1 | 0.64 | -0.11 | N/A |
| VH295677 | 2 | 0.87 | 1.63 | 0.73, -0.73 |
| VH295555 | 2 | 0.76 | 1.23 | 0.48, -0.48 |
| VH945506 | 2 | 0.49 | 1.18 | 1.01, -1.01 |
| VH295666 | 2 | 0.72 | 1.04 | N/A |

Table 8.A. PT Item Statistics for Grade Seven—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295267 | 3 | 0.73 | 0.51 | 1.74, -0.04, -1.70 |
| VH295268 | 2 | 0.87 | -0.03 | 0.64, -0.64 |
| VH295272 | 4 | 0.67 | 1.25 | 2.31, 0.66, -0.83, -2.15 |
| VH295273 | 2 | 0.83 | 0.05 | 0.49, -0.49 |
| VH295310 | 3 | 0.82 | 0.49 | 1.35, 0.15, -1.50 |
| VH295311 | 2 | 0.96 | -0.05 | 0.42, -0.42 |
| VH295322 | 4 | 1.14 | 1.22 | 2.17, 0.59, -0.60, -2.16 |
| VH295323 | 2 | 1.33 | 0.16 | 0.59, -0.59 |
| VH295335 | 3 | 1.25 | 0.63 | 1.33, -0.05, -1.28 |
| VH295336 | 2 | 1.50 | 0.34 | 0.54, -0.54 |
| VH295373 | 3 | 0.99 | 1.00 | 0.97, 0.02, -0.99 |
| VH295374 | 2 | 1.20 | 0.59 | 0.37, -0.37 |
| VH295399 | 3 | 1.28 | 0.93 | 1.03, 0.02, -1.05 |
| VH295400 | 2 | 1.65 | 0.52 | 0.41, -0.41 |
| VH295411 | 4 | 0.88 | 1.24 | 2.21, 0.70, -0.68, -2.23 |
| VH295412 | 2 | 1.00 | -0.13 | 0.30, -0.30 |
| VH295509 | 3 | 0.80 | 0.73 | 1.48, 0.29, -1.76 |
| VH295510 | 2 | 0.97 | 0.12 | 0.48, -0.48 |
| VH295529 | 4 | 0.66 | 1.27 | 1.47, 0.62, -0.37, -1.72 |
| VH295530 | 2 | 0.90 | 0.58 | 0.26, -0.26 |
| VH295577 | 4 | 0.66 | 0.78 | 1.47, 0.65, -0.32, -1.79 |
| VH295578 | 2 | 0.98 | 0.42 | 0.48, -0.48 |
| VH295637 | 3 | 0.70 | 0.56 | 1.31, 0.22, -1.53 |
| VH295638 | 2 | 0.88 | 0.00 | 0.40, -0.40 |
| VH295720 | 3 | 0.94 | 0.63 | 1.53, -0.11, -1.42 |
| VH295721 | 2 | 0.99 | 0.15 | 0.52, -0.52 |
| VH295762 | 4 | 0.66 | 1.08 | 0.75, 0.72, 0.00, -1.47 |
| VH295763 | 2 | 1.02 | 0.52 | 0.14, -0.14 |
| VH295907 | 3 | 0.71 | 0.84 | 1.51, -0.10, -1.41 |
| VH295908 | 2 | 0.92 | 0.37 | 0.58, -0.58 |
| VH295944 | 3 | 0.83 | 0.76 | 1.68, -0.07, -1.61 |
| VH295945 | 2 | 0.82 | 0.17 | 0.55, -0.55 |
| VH296105 | 3 | 1.00 | 0.59 | 1.27, 0.04, -1.31 |
| VH296106 | 2 | 1.24 | 0.27 | 0.56, -0.56 |
| VH296118 | 3 | 0.68 | 0.55 | 1.66, 0.14, -1.80 |
| VH296119 | 2 | 0.87 | -0.06 | 0.56, -0.56 |
| VH945435 | 4 | 0.44 | 1.15 | 1.04, 1.73, -0.55, -2.21 |

Table 8.A.89 *(continuation)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH945436 | 2 | 0.51 | -0.14 | -0.41, 0.41 |
| VH945460 | 4 | 0.46 | 1.52 | 2.03, 1.49, -0.72, -2.80 |
| VH945461 | 2 | 0.44 | -0.31 | -0.59, 0.59 |
| VH945464 | 4 | 0.49 | 1.55 | 2.43, 1.23, -0.55, -3.12 |
| VH945465 | 2 | 0.46 | -0.33 | -0.23, 0.23 |
| VH945528 | 4 | 0.43 | 1.56 | 2.69, 1.28, -0.86, -3.12 |
| VH945529 | 2 | 0.47 | -0.26 | 0.08, -0.08 |
| VH945574 | 4 | 0.51 | 1.15 | 0.67, 1.45, -0.63, -1.50 |
| VH945575 | 2 | 0.65 | 0.10 | -0.35, 0.35 |
| VH945458 | 2 | 0.85 | 1.63 | 0.86, -0.86 |
| VH295717 | 2 | 0.75 | 2.05 | 0.27, -0.27 |
| VH295325 | 2 | 0.91 | 1.43 | 0.39, -0.39 |
| VH295505 | 2 | 0.54 | 1.19 | 0.00, 0.00 |
| VH295759 | 2 | 0.76 | 1.28 | 0.18, -0.18 |
| VH295401 | 2 | 0.81 | 1.28 | 0.29, -0.29 |
| VH296116 | 2 | 0.61 | 1.70 | 0.42, -0.42 |
| VH295415 | 2 | 0.66 | 2.11 | N/A |
| VH295574 | 2 | 0.72 | 1.15 | -0.05, 0.05 |
| VH295263 | 2 | 0.82 | 0.82 | 0.24, -0.24 |
| VH945526 | 1 | 0.54 | 1.20 | N/A |
| VH295371 | 2 | 0.75 | 2.38 | 0.92, -0.92 |
| VH295635 | 2 | 0.66 | 2.02 | 0.17, -0.17 |
| VH295909 | 2 | 0.72 | 1.08 | 0.17, -0.17 |
| VH295941 | 2 | 0.92 | 1.41 | 0.36, -0.36 |
| VH945433 | 2 | 0.59 | 1.70 | 0.37, -0.37 |
| VH296102 | 2 | 1.00 | 1.40 | 0.35, -0.35 |
| VH295339 | 2 | 0.81 | 0.96 | 0.43, -0.43 |
| VH295526 | 2 | 0.71 | 1.72 | -0.34, 0.34 |
| VH295270 | 2 | 0.78 | 1.50 | 0.22, -0.22 |
| VH945466 | 1 | 0.91 | 2.07 | N/A |
| VH295306 | 2 | 0.89 | 1.22 | 0.34, -0.34 |
| VH945572 | 2 | 0.72 | 1.48 | 0.25, -0.25 |

Table 8.A. PT Item Statistics for Grade Eight—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295280 | 4 | 0.87 | 1.08 | 1.95, 0.99, -0.81, -2.13 |
| VH295281 | 2 | 0.99 | -0.01 | 0.30, -0.30 |
| VH295295 | 4 | 0.74 | 1.15 | 2.11, 1.06, -0.83, -2.33 |
| VH295296 | 2 | 0.78 | -0.16 | 0.37, -0.37 |
| VH295302 | 4 | 0.57 | 1.03 | -0.11, 1.27, -0.10, -1.06 |
| VH295303 | 2 | 0.90 | 0.44 | -0.29, 0.29 |
| VH295358 | 4 | 0.82 | 1.09 | 2.63, 0.80, -1.27, -2.16 |
| VH295359 | 2 | 0.82 | -0.11 | 0.42, -0.42 |
| VH295387 | 4 | 0.93 | 0.96 | 1.94, 0.77, -0.90, -1.81 |
| VH295388 | 2 | 1.01 | -0.05 | 0.40, -0.40 |
| VH295466 | 3 | 0.86 | 0.53 | 1.42, 0.24, -1.66 |
| VH295467 | 2 | 0.79 | 0.00 | 0.33, -0.33 |
| VH295487 | 4 | 0.75 | 0.96 | 2.39, 1.07, -1.02, -2.43 |
| VH295488 | 2 | 0.86 | -0.23 | 0.50, -0.50 |
| VH295514 | 3 | 0.64 | 0.39 | 1.77, 0.32, -2.09 |
| VH295515 | 2 | 0.71 | -0.30 | 0.59, -0.59 |
| VH295597 | 4 | 0.57 | 1.06 | -0.21, 1.02, 0.05, -0.85 |
| VH295598 | 2 | 0.82 | 0.62 | -0.28, 0.28 |
| VH295605 | 4 | 0.98 | 0.77 | 1.90, 0.74, -0.83, -1.81 |
| VH295606 | 2 | 1.05 | -0.08 | 0.45, -0.45 |
| VH295625 | 4 | 0.87 | 1.01 | 2.21, 0.81, -0.68, -2.34 |
| VH295626 | 2 | 0.93 | -0.27 | 0.45, -0.45 |
| VH295769 | 4 | 0.70 | 0.78 | 2.19, 1.06, -1.12, -2.13 |
| VH295770 | 2 | 0.70 | -0.49 | 0.42, -0.42 |
| VH295832 | 4 | 0.96 | 1.10 | 2.24, 1.04, -0.75, -2.54 |
| VH295833 | 2 | 1.05 | -0.14 | 0.47, -0.47 |
| VH295846 | 4 | 0.91 | 1.06 | 2.31, 0.96, -1.00, -2.27 |
| VH295847 | 2 | 0.85 | -0.16 | 0.51, -0.51 |
| VH295979 | 3 | 0.70 | 0.42 | 1.42, 0.42, -1.83 |
| VH295980 | 2 | 0.77 | -0.26 | 0.30, -0.30 |
| VH296018 | 4 | 0.74 | 1.04 | 2.41, 1.23, -0.79, -2.85 |
| VH296019 | 2 | 0.88 | -0.34 | 0.40, -0.40 |
| VH296026 | 4 | 0.85 | 1.28 | 2.50, 0.83, -1.17, -2.16 |
| VH296027 | 2 | 0.72 | -0.09 | 0.29, -0.29 |
| VH296060 | 4 | 0.59 | 0.78 | 1.74, 0.56, -0.59, -1.71 |
| VH296061 | 2 | 0.73 | 0.07 | 0.27, -0.27 |
| VH296098 | 4 | 0.68 | 0.61 | 1.29, 0.66, -0.55, -1.40 |

Table 8.A.90 *(continuation)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH296099 | 2 | 0.99 | -0.08 | 0.22, -0.22 |
| VH945425 | 4 | 0.32 | 1.84 | 1.16, 2.50, -0.25, -3.41 |
| VH945426 | 2 | 0.37 | 0.17 | -0.27, 0.27 |
| VH945498 | 4 | 0.39 | 1.50 | 1.59, 1.96, -0.64, -2.91 |
| VH945499 | 2 | 0.47 | -0.05 | -0.04, 0.04 |
| VH945503 | 4 | 0.31 | 1.93 | 1.84, 2.69, 0.08, -4.61 |
| VH945504 | 2 | 0.24 | -0.97 | -2.32, 2.32 |
| VH945553 | 4 | 0.34 | 1.03 | 0.31, 1.53, 0.15, -1.99 |
| VH945554 | 2 | 0.40 | -0.17 | -1.08, 1.08 |
| VH945594 | 4 | 0.32 | 1.17 | 0.69, 0.70, 0.26, -1.65 |
| VH945595 | 2 | 0.35 | -0.17 | -1.63, 1.63 |
| VH295277 | 2 | 0.69 | 1.30 | 0.22, -0.22 |
| VH945551 | 1 | 0.60 | 2.35 | N/A |
| VH295765 | 2 | 0.88 | 1.36 | 0.46, -0.46 |
| VH945423 | 1 | 0.37 | 3.42 | N/A |
| VH295517 | 2 | 0.68 | 2.17 | 1.05, -1.05 |
| VH296095 | 2 | 0.78 | 1.35 | N/A |
| VH295463 | 2 | 0.89 | 1.53 | 0.19, -0.19 |
| VH295298 | 2 | 0.45 | 1.59 | 1.28, -1.28 |
| VH296023 | 2 | 0.74 | 1.32 | 0.46, -0.46 |
| VH295975 | 2 | 0.84 | 2.14 | 0.78, -0.78 |
| VH295829 | 2 | 0.83 | 1.49 | 0.39, -0.39 |
| VH295485 | 1 | 0.22 | 1.46 | N/A |
| VH945592 | 1 | 0.49 | 2.49 | N/A |
| VH296021 | 2 | 0.53 | 1.44 | 0.07, -0.07 |
| VH295622 | 2 | 0.79 | 2.39 | 0.35, -0.35 |
| VH295355 | 2 | 0.72 | 2.04 | 0.64, -0.64 |
| VH296063 | 2 | 0.62 | 1.55 | 0.26, -0.26 |
| VH295599 | 2 | 0.61 | 1.41 | 0.45, -0.45 |
| VH295843 | 2 | 0.82 | 1.54 | 0.04, -0.04 |
| VH295291 | 2 | 0.61 | 1.28 | 0.33, -0.33 |
| VH945501 | 1 | 0.30 | 4.68 | N/A |
| VH295601 | 2 | 0.85 | 1.44 | 0.41, -0.41 |
| VH295384 | 2 | 0.79 | 1.85 | 0.33, -0.33 |
| VH945496 | 2 | 0.63 | 1.52 | 0.54, -0.54 |

Table 8.A. PT Item Statistics for Grade Eleven—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295246 | 4 | 0.59 | 1.50 | 2.42, 0.67, -1.00, -2.09 |
| VH295247 | 2 | 0.75 | 1.02 | 0.26, -0.26 |
| VH295253 | 4 | 0.44 | 1.73 | 2.61, 1.03, -0.85, -2.78 |
| VH295254 | 2 | 0.52 | 0.95 | -0.21, 0.21 |
| VH295287 | 4 | 0.55 | 1.81 | 2.16, 1.00, -0.98, -2.17 |
| VH295288 | 2 | 0.80 | 1.26 | 0.41, -0.41 |
| VH295366 | 4 | 0.49 | 1.90 | 2.49, 0.74, -0.62, -2.61 |
| VH295367 | 2 | 0.64 | 1.22 | 0.38, -0.38 |
| VH295380 | 4 | 0.51 | 1.31 | 2.60, 1.03, -0.91, -2.72 |
| VH295381 | 2 | 0.58 | 0.83 | 0.04, -0.04 |
| VH295392 | 4 | 0.51 | 1.83 | 2.68, 0.93, -0.70, -2.91 |
| VH295393 | 2 | 0.56 | 1.09 | -0.01, 0.01 |
| VH295502 | 4 | 0.55 | 2.17 | 2.30, 0.71, -0.75, -2.25 |
| VH295503 | 2 | 0.60 | 1.30 | -0.12, 0.12 |
| VH295534 | 4 | 0.53 | 1.53 | 2.74, 0.92, -0.83, -2.83 |
| VH295535 | 2 | 0.58 | 0.91 | 0.09, -0.09 |
| VH295551 | 4 | 0.43 | 1.94 | 2.81, 0.71, -1.10, -2.41 |
| VH295552 | 2 | 0.50 | 1.20 | -0.25, 0.25 |
| VH295618 | 4 | 0.56 | 1.72 | 2.20, 0.84, -0.99, -2.04 |
| VH295619 | 2 | 0.61 | 1.13 | 0.09, -0.09 |
| VH295653 | 4 | 0.50 | 1.76 | 2.51, 0.67, -1.05, -2.13 |
| VH295654 | 2 | 0.63 | 1.47 | 0.23, -0.23 |
| VH295701 | 4 | 0.51 | 1.72 | 2.34, 1.09, -0.57, -2.86 |
| VH295702 | 2 | 0.66 | 1.01 | 0.01, -0.01 |
| VH295727 | 4 | 0.53 | 2.01 | 2.46, 1.06, -0.72, -2.80 |
| VH295728 | 2 | 0.62 | 1.09 | 0.13, -0.13 |
| VH295748 | 4 | 0.56 | 1.67 | 2.05, 0.61, -0.83, -1.84 |
| VH295749 | 2 | 0.71 | 1.14 | 0.21, -0.21 |
| VH295804 | 4 | 0.62 | 1.55 | 2.50, 0.64, -0.85, -2.29 |
| VH295805 | 2 | 0.75 | 1.10 | 0.56, -0.56 |
| VH295817 | 4 | 0.63 | 1.64 | 2.10, 0.60, -0.86, -1.84 |
| VH295818 | 2 | 0.65 | 1.08 | 0.23, -0.23 |
| VH295853 | 4 | 0.61 | 1.70 | 2.67, 0.91, -0.85, -2.73 |
| VH295854 | 2 | 0.69 | 1.06 | 0.25, -0.25 |
| VH295885 | 4 | 0.56 | 1.54 | 2.02, 1.04, -0.81, -2.25 |
| VH295886 | 2 | 0.69 | 1.07 | 0.12, -0.12 |
| VH295928 | 4 | 0.52 | 1.67 | 2.90, 0.89, -0.84, -2.95 |
| VH295929 | 2 | 0.59 | 0.83 | 0.16, -0.16 |
| VH296005 | 4 | 0.48 | 1.73 | 2.52, 0.71, -0.96, -2.28 |

Table 8.A.91 *(continuation)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH296006 | 2 | 0.57 | 1.15 | 0.04, -0.04 |
| VH296054 | 4 | 0.64 | 1.53 | 2.05, 0.83, -0.87, -2.01 |
| VH296055 | 2 | 0.70 | 0.84 | 0.25, -0.25 |
| VH945420 | 4 | 0.58 | 1.06 | 2.09, 1.57, -0.83, -2.83 |
| VH945421 | 2 | 0.59 | -0.22 | -0.12, 0.12 |
| VH945470 | 4 | 0.53 | 1.51 | 2.26, 1.73, -0.49, -3.51 |
| VH945471 | 2 | 0.66 | -0.04 | 0.44, -0.44 |
| VH945475 | 4 | 0.71 | 1.26 | 1.83, 1.55, -0.48, -2.90 |
| VH945476 | 2 | 0.79 | 0.01 | 0.53, -0.53 |
| VH945523 | 4 | 0.62 | 1.50 | 1.86, 1.68, -0.62, -2.92 |
| VH945524 | 2 | 0.71 | 0.07 | 0.44, -0.44 |
| VH945538 | 4 | 0.46 | 1.26 | 2.01, 1.90, -0.72, -3.19 |
| VH945539 | 2 | 0.49 | -0.41 | -0.69, 0.69 |
| VH295390 | 2 | 0.62 | 1.66 | 0.03, -0.03 |
| VH295649 | 2 | 0.57 | 1.71 | N/A |
| VH295243 | 2 | 0.87 | 1.51 | 0.68, -0.68 |
| VH945521 | 2 | 0.56 | 1.63 | 0.71, -0.71 |
| VH945536 | 2 | 0.49 | 1.55 | 0.46, -0.46 |
| VH296052 | 2 | 0.64 | 2.01 | 0.21, -0.21 |
| VH295284 | 2 | 0.63 | 0.74 | 0.27, -0.27 |
| VH295887 | 2 | 0.68 | 2.15 | 1.09, -1.09 |
| VH295377 | 2 | 0.66 | 1.79 | 0.46, -0.46 |
| VH295723 | 1 | 0.59 | 1.98 | N/A |
| VH295251 | 1 | 0.34 | 0.69 | N/A |
| VH295362 | 2 | 0.54 | 3.10 | 0.44, -0.44 |
| VH295926 | 1 | 0.41 | 1.70 | N/A |
| VH295547 | 2 | 0.46 | 2.71 | 0.69, -0.69 |
| VH945468 | 2 | 0.57 | 1.34 | 0.45, -0.45 |
| VH295499 | 2 | 0.57 | 1.95 | 0.10, -0.10 |
| VH295744 | 2 | 0.73 | 1.82 | 0.28, -0.28 |
| VH295814 | 2 | 0.75 | 2.07 | 0.63, -0.63 |
| VH296003 | 2 | 0.63 | 1.38 | 0.45, -0.45 |
| VH295851 | 2 | 0.71 | 1.61 | 1.19, -1.19 |
| VH295697 | 2 | 0.64 | 1.50 | 0.31, -0.31 |
| VH945418 | 2 | 0.58 | 0.66 | 0.48, -0.48 |
| VH945473 | 1 | 0.37 | 4.19 | N/A |
| VH295615 | 2 | 0.64 | 2.12 | 0.27, -0.27 |
| VH295538 | 2 | 0.60 | 1.25 | -0.40, 0.40 |
| VH295802 | 2 | 0.71 | 1.92 | 0.62, -0.62 |

Table 8.A. PT Item Statistics for Grade Three—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH945868 | 1 | 1.06 | -1.51 | N/A |
| VH945869 | 1 | 1.07 | -1.41 | N/A |
| VH945870 | 2 | 0.89 | -1.45 | 0.65, -0.65 |
| VH945871 | 2 | 0.87 | -1.45 | 0.41, -0.41 |
| VH945872 | 2 | 0.58 | -0.58 | -1.80, 1.80 |
| VH299291 | 1 | 1.04 | -1.41 | N/A |
| VH299292 | 1 | 1.07 | -0.74 | N/A |
| VH299294 | 2 | 0.60 | -1.53 | 0.42, -0.42 |
| VH299295 | 1 | 0.68 | -0.38 | N/A |
| VH299297 | 2 | 0.61 | -0.57 | -0.62, 0.62 |
| VH299298 | 2 | 1.18 | 0.01 | 0.02, -0.02 |
| VH299352 | 2 | 0.51 | -0.52 | -1.21, 1.21 |
| VH299360 | 1 | 0.13 | 0.29 | N/A |
| VH299365 | 1 | 0.67 | 0.61 | N/A |
| VH324272 | 1 | 0.61 | -1.77 | N/A |
| VH324273 | 1 | 1.03 | -1.19 | N/A |
| VH324274 | 1 | 1.13 | -0.81 | N/A |
| VH299378 | 2 | 0.89 | -0.30 | -0.44, 0.44 |
| VH299379 | 3 | 0.64 | -1.55 | -0.22, 0.68, -0.46 |
| VH299380 | 1 | 1.28 | -1.08 | N/A |
| VH299381 | 2 | 0.93 | 0.09 | 0.10, -0.10 |
| VH324305 | 1 | 1.42 | -1.74 | N/A |
| VH324306 | 1 | 1.30 | -1.38 | N/A |
| VH299632 | 2 | 0.67 | 0.17 | 0.83, -0.83 |
| VH299637 | 2 | 0.59 | -0.18 | -0.34, 0.34 |
| VH299646 | 2 | 0.94 | -0.61 | -0.50, 0.50 |
| VH299647 | 2 | 1.10 | 0.27 | 0.47, -0.47 |
| VH324383 | 1 | 1.06 | -1.03 | N/A |
| VH324384 | 1 | 0.88 | -0.20 | N/A |
| VH945862 | 1 | 1.12 | -1.47 | N/A |
| VH945863 | 1 | 1.04 | -1.24 | N/A |
| VH945864 | 2 | 1.09 | -1.50 | 0.49, -0.49 |
| VH945865 | 2 | 0.95 | -1.50 | 0.51, -0.51 |
| VH945866 | 2 | 0.56 | -0.56 | -1.79, 1.79 |
| VH945773 | 1 | 1.20 | -1.41 | N/A |
| VH945774 | 1 | 0.94 | -1.47 | N/A |
| VH945775 | 1 | 0.94 | -0.89 | N/A |

Table 8.A.92 *(continuation one)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH945776 | 2 | 0.67 | -0.77 | -0.82, 0.82 |
| VH945777 | 3 | 0.54 | 0.18 | 0.68, 0.36, -1.04 |
| VH300360 | 2 | 0.82 | -0.45 | -0.34, 0.34 |
| VH300362 | 3 | 0.59 | -1.55 | -0.17, 0.69, -0.52 |
| VH300364 | 1 | 1.13 | -1.03 | N/A |
| VH300365 | 2 | 0.97 | 0.01 | 0.26, -0.26 |
| VH324345 | 1 | 1.19 | -1.26 | N/A |
| VH324346 | 1 | 0.98 | -1.22 | N/A |
| VH299560 | 2 | 0.57 | -0.30 | -1.51, 1.51 |
| VH299561 | 2 | 0.84 | 0.82 | -0.63, 0.63 |
| VH299565 | 1 | 0.26 | 2.20 | N/A |
| VH324269 | 1 | 1.08 | -1.07 | N/A |
| VH324270 | 1 | 1.44 | -0.68 | N/A |
| VH324271 | 1 | 1.44 | -0.50 | N/A |
| VH299465 | 1 | 1.02 | -1.84 | N/A |
| VH299466 | 1 | 1.09 | -0.49 | N/A |
| VH299467 | 2 | 0.76 | 0.39 | N/A |
| VH299468 | 2 | 0.78 | -0.44 | 0.20, -0.20 |
| VH299469 | 2 | 0.43 | -0.04 | -2.13, 2.13 |
| VH299470 | 2 | 0.78 | -0.46 | -0.31, 0.31 |
| VH300058 | 1 | 1.07 | -1.40 | N/A |
| VH300059 | 1 | 1.22 | -0.58 | N/A |
| VH300060 | 2 | 0.49 | -1.28 | 0.64, -0.64 |
| VH300062 | 1 | 0.67 | -0.37 | N/A |
| VH300063 | 2 | 0.66 | -0.40 | -0.82, 0.82 |
| VH300064 | 2 | 1.07 | 0.03 | -0.08, 0.08 |
| VH299779 | 1 | 1.14 | -1.07 | N/A |
| VH299780 | 1 | 0.91 | -0.13 | N/A |
| VH299781 | 2 | 0.86 | 0.19 | 0.57, -0.57 |
| VH299782 | 2 | 0.71 | -0.34 | -0.35, 0.35 |
| VH299783 | 2 | 1.07 | -0.59 | -0.34, 0.34 |
| VH299784 | 2 | 1.30 | 0.22 | 0.51, -0.51 |
| VH945767 | 1 | 1.17 | -1.46 | N/A |
| VH945768 | 1 | 0.98 | -1.64 | N/A |
| VH945769 | 2 | 0.58 | -0.74 | -1.19, 1.19 |
| VH945770 | 1 | 0.87 | -0.98 | N/A |
| VH945771 | 3 | 0.54 | 0.05 | 0.48, 0.33, -0.81 |

Table 8.A.92 *(continuation two)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299057 | 1 | 0.64 | -0.97 | N/A |
| VH299058 | 1 | 1.04 | -0.03 | N/A |
| VH299059 | 3 | 0.52 | -1.67 | -0.73, 0.75, -0.02 |
| VH299060 | 1 | 0.90 | -1.05 | N/A |
| VH299061 | 1 | 1.04 | -0.10 | N/A |
| VH299414 | 1 | 0.86 | -1.51 | N/A |
| VH299415 | 1 | 1.12 | -0.56 | N/A |
| VH299416 | 2 | 0.63 | 0.42 | -0.68, 0.68 |
| VH299417 | 2 | 0.72 | -0.52 | 0.26, -0.26 |
| VH299419 | 2 | 0.41 | -0.17 | -2.68, 2.68 |
| VH299420 | 2 | 0.84 | -0.49 | -0.17, 0.17 |
| VH299997 | 1 | 0.76 | -0.71 | N/A |
| VH299998 | 1 | 1.21 | -0.21 | N/A |
| VH299999 | 3 | 0.54 | -1.44 | -0.39, 0.74, -0.35 |
| VH300000 | 1 | 0.91 | -0.88 | N/A |
| VH300001 | 1 | 1.15 | -0.16 | N/A |

Table 8.A. PT Item Statistics for Grade Four—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299934 | 2 | 1.23 | 0.65 | -0.06, 0.06 |
| VH324315 | 1 | 1.09 | -1.18 | N/A |
| VH324316 | 1 | 0.88 | -1.49 | N/A |
| VH324317 | 1 | 1.01 | 0.19 | N/A |
| VH299100 | 1 | 1.18 | -1.21 | N/A |
| VH299101 | 1 | 0.75 | -1.68 | N/A |
| VH299103 | 2 | 0.91 | 0.80 | 0.19, -0.19 |
| VH299105 | 2 | 0.69 | 1.98 | -0.52, 0.52 |
| VH299106 | 1 | 1.00 | 0.57 | N/A |
| VH299107 | 3 | 0.77 | 0.24 | 0.56, 0.55, -1.10 |
| VH299110 | 1 | 0.57 | -0.63 | N/A |
| VH299111 | 1 | 0.98 | -0.71 | N/A |
| VH299112 | 2 | 0.88 | 0.86 | 0.32, -0.32 |
| VH299113 | 2 | 0.71 | 0.65 | 0.26, -0.26 |
| VH299114 | 3 | 0.65 | -1.16 | 0.83, -0.95, 0.12 |
| VH299115 | 2 | 0.87 | 1.20 | 0.09, -0.09 |
| VH299178 | 1 | 0.79 | -1.02 | N/A |
| VH299180 | 1 | 0.53 | 0.05 | N/A |
| VH299181 | 2 | 0.57 | 0.37 | -0.13, 0.13 |
| VH299182 | 2 | 0.60 | 0.95 | -1.77, 1.77 |
| VH299823 | 2 | 1.22 | 1.05 | 0.09, -0.09 |
| VH324342 | 1 | 1.05 | -0.21 | N/A |
| VH324343 | 1 | 0.73 | -1.67 | N/A |
| VH324344 | 1 | 0.95 | 0.31 | N/A |
| VH299400 | 1 | 0.98 | 0.27 | N/A |
| VH299402 | 2 | 0.44 | 1.57 | -3.52, 3.52 |
| VH299403 | 2 | 0.69 | 0.35 | -0.67, 0.67 |
| VH299405 | 2 | 0.82 | 0.04 | -1.44, 1.44 |
| VH303281 | 1 | 0.79 | -1.26 | N/A |
| VH324307 | 2 | 0.63 | 0.55 | -1.81, 1.81 |
| VH300216 | 1 | 0.70 | -0.42 | N/A |
| VH300217 | 1 | 0.87 | 0.93 | N/A |
| VH300219 | 2 | 0.79 | 0.31 | -0.27, 0.27 |
| VH324335 | 1 | 0.66 | -0.79 | N/A |
| VH299443 | 1 | 1.08 | -1.58 | N/A |
| VH299444 | 1 | 1.27 | -0.98 | N/A |
| VH299445 | 2 | 0.94 | 0.38 | 0.23, -0.23 |

Table 8.A.93 *(continuation one)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299446 | 2 | 0.74 | 0.68 | -0.97, 0.97 |
| VH299447 | 1 | 1.13 | 0.53 | N/A |
| VH299448 | 3 | 0.85 | -0.01 | 0.44, 0.49, -0.92 |
| VH300410 | 1 | 1.08 | 0.74 | N/A |
| VH300412 | 2 | 0.92 | -0.53 | 0.78, -0.78 |
| VH300414 | 1 | 0.60 | 0.35 | N/A |
| VH300094 | 1 | 0.67 | -0.76 | N/A |
| VH300095 | 1 | 1.43 | -1.90 | N/A |
| VH300096 | 1 | 0.82 | 0.13 | N/A |
| VH300098 | 1 | 0.97 | 0.20 | N/A |
| VH300099 | 2 | 0.73 | -0.07 | 0.42, -0.42 |
| VH300208 | 1 | 0.89 | -1.05 | N/A |
| VH300209 | 1 | 0.67 | -1.66 | N/A |
| VH300210 | 2 | 0.79 | 1.14 | 0.10, -0.10 |
| VH300211 | 1 | 0.88 | 1.58 | N/A |
| VH300212 | 1 | 1.02 | 0.42 | N/A |
| VH300213 | 3 | 0.82 | 0.61 | N/A |
| VH300004 | 1 | 0.68 | -1.41 | N/A |
| VH300005 | 2 | 0.66 | 0.45 | -1.77, 1.77 |
| VH300006 | 1 | 0.94 | 0.44 | N/A |
| VH300007 | 2 | 0.50 | 1.25 | -1.53, 1.53 |
| VH300008 | 2 | 0.57 | 0.33 | -0.86, 0.86 |
| VH300009 | 2 | 0.69 | -0.09 | -1.36, 1.36 |
| VH300180 | 1 | 1.37 | -1.04 | N/A |
| VH300181 | 1 | 1.24 | -1.07 | N/A |
| VH300185 | 2 | 0.99 | -0.23 | 0.04, -0.04 |
| VH300188 | 2 | 0.74 | 0.94 | 0.17, -0.17 |
| VH300038 | 2 | 0.63 | 0.33 | 0.02, -0.02 |
| VH300047 | 2 | 0.71 | 0.69 | -1.88, 1.88 |
| VH324275 | 1 | 0.86 | -1.33 | N/A |
| VH324276 | 1 | 0.44 | 2.15 | N/A |
| VH945837 | 1 | 0.74 | -0.47 | N/A |
| VH945838 | 1 | 1.25 | -1.93 | N/A |
| VH945839 | 2 | 0.68 | -0.78 | -0.02, 0.02 |
| VH945840 | 1 | 1.25 | -0.95 | N/A |
| VH945841 | 2 | 0.76 | 0.30 | 0.00, 0.00 |
| VH945842 | 2 | 0.70 | 0.10 | -0.26, 0.26 |
| VH299501 | 1 | 0.63 | 0.02 | N/A |

Table 8.A.93 *(continuation two)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299504 | 1 | 0.87 | 0.84 | N/A |
| VH299506 | 2 | 0.80 | 0.16 | -0.18, 0.18 |
| VH299508 | 1 | 1.07 | -0.33 | N/A |
| VH299512 | 2 | 0.69 | 0.43 | -0.49, 0.49 |
| VH324382 | 1 | 0.65 | -0.75 | N/A |
| VH300286 | 1 | 0.72 | -0.69 | N/A |
| VH300287 | 1 | 1.15 | -0.57 | N/A |
| VH300288 | 2 | 0.93 | 0.78 | 0.26, -0.26 |
| VH300290 | 2 | 0.78 | 0.49 | 0.18, -0.18 |
| VH300291 | 3 | 0.64 | -1.19 | 1.01, -0.62, -0.40 |
| VH945831 | 1 | 0.89 | -1.75 | N/A |
| VH945832 | 1 | 0.81 | -0.17 | N/A |
| VH945833 | 1 | 1.02 | 0.96 | N/A |
| VH945834 | 2 | 0.54 | -0.75 | -1.08, 1.08 |
| VH945835 | 2 | 0.59 | -0.06 | -0.32, 0.32 |
| VH299472 | 1 | 0.66 | -0.72 | N/A |
| VH299473 | 1 | 1.09 | -1.53 | N/A |
| VH299474 | 1 | 0.88 | 0.18 | N/A |
| VH299476 | 1 | 0.76 | 0.22 | N/A |
| VH299477 | 2 | 0.68 | 0.01 | 0.27, -0.27 |
| VH945874 | 1 | 1.09 | -1.19 | N/A |
| VH945875 | 1 | 0.60 | -0.70 | N/A |
| VH945876 | 2 | 0.61 | -0.66 | -0.99, 0.99 |
| VH945877 | 2 | 0.78 | -0.16 | 0.23, -0.23 |
| VH945878 | 2 | 0.81 | 0.81 | -0.03, 0.03 |
| VH299337 | 1 | 0.85 | -1.47 | N/A |
| VH299338 | 1 | 1.11 | -0.83 | N/A |
| VH299339 | 2 | 1.06 | 0.73 | -0.05, 0.05 |
| VH299340 | 2 | 0.74 | 0.62 | -0.66, 0.66 |
| VH299341 | 1 | 0.90 | 0.45 | N/A |
| VH299342 | 3 | 0.70 | 0.12 | 0.77, 0.26, -1.03 |

Table 8.A. PT Item Statistics for Grade Five—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH300073 | 1 | 0.93 | 0.54 | N/A |
| VH300074 | 1 | 0.78 | -0.48 | N/A |
| VH300075 | 2 | 0.61 | 1.00 | -1.15, 1.15 |
| VH300076 | 2 | 0.71 | 1.60 | 0.43, -0.43 |
| VH300077 | 3 | 0.58 | 0.83 | -0.50, -0.33, 0.83 |
| VH300078 | 2 | 0.31 | 3.81 | 1.90, -1.90 |
| VH299680 | 1 | 1.22 | 0.67 | N/A |
| VH299683 | 2 | 0.57 | 0.13 | 0.24, -0.24 |
| VH299685 | 2 | 0.83 | 1.37 | 0.42, -0.42 |
| VH299687 | 2 | 1.20 | 2.18 | 0.20, -0.20 |
| VH324376 | 1 | 0.96 | 0.51 | N/A |
| VH324377 | 1 | 0.46 | 2.05 | N/A |
| VH299881 | 2 | 0.45 | -0.19 | -2.39, 2.39 |
| VH299884 | 2 | 0.64 | 0.76 | -0.54, 0.54 |
| VH299887 | 2 | 0.99 | 1.67 | -0.10, 0.10 |
| VH299891 | 3 | 0.74 | 1.32 | 0.19, -0.21, 0.02 |
| VH324350 | 1 | 0.69 | 1.23 | N/A |
| VH324351 | 1 | 1.14 | 1.17 | N/A |
| VH945850 | 1 | 0.79 | -2.21 | N/A |
| VH945851 | 1 | 0.85 | -1.33 | N/A |
| VH945852 | 2 | 0.73 | -0.12 | -0.43, 0.43 |
| VH945853 | 2 | 0.65 | -0.97 | -0.93, 0.93 |
| VH945854 | 2 | 0.58 | 0.60 | -1.05, 1.05 |
| VH945825 | 1 | 0.68 | -2.10 | N/A |
| VH945826 | 1 | 0.69 | -1.12 | N/A |
| VH945827 | 2 | 0.60 | -0.07 | -0.50, 0.50 |
| VH945828 | 2 | 0.69 | 0.53 | -0.55, 0.55 |
| VH945829 | 2 | 0.56 | 0.34 | -0.60, 0.60 |
| VH945785 | 1 | 0.96 | -1.33 | N/A |
| VH945786 | 1 | 0.88 | -2.21 | N/A |
| VH945787 | 2 | 0.65 | 0.29 | -0.53, 0.53 |
| VH945788 | 2 | 0.73 | 0.62 | 0.58, -0.58 |
| VH945789 | 2 | 0.47 | 0.97 | -3.12, 3.12 |
| VH299433 | 1 | 1.24 | 1.19 | N/A |
| VH299434 | 2 | 0.55 | 0.10 | 0.23, -0.23 |
| VH299438 | 2 | 0.77 | 1.49 | 0.45, -0.45 |
| VH324339 | 1 | 0.98 | -0.39 | N/A |

Table 8.A.94 *(continuation one)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324340 | 1 | 0.52 | 2.12 | N/A |
| VH299076 | 1 | 0.79 | 0.19 | N/A |
| VH299077 | 1 | 1.20 | 0.97 | N/A |
| VH299078 | 2 | 0.68 | 1.08 | -0.66, 0.66 |
| VH299080 | 2 | 0.67 | 1.60 | 0.20, -0.20 |
| VH299081 | 3 | 0.54 | 0.90 | -0.57, -0.10, 0.67 |
| VH299082 | 2 | 0.30 | 3.94 | 1.92, -1.92 |
| VH299983 | 1 | 0.82 | -0.94 | N/A |
| VH299984 | 1 | 0.71 | 1.39 | N/A |
| VH299985 | 2 | 0.58 | 0.02 | 0.14, -0.14 |
| VH299987 | 2 | 0.77 | 1.52 | -0.12, 0.12 |
| VH299989 | 3 | 0.33 | 2.40 | -1.35, 0.49, 0.86 |
| VH299407 | 1 | 0.75 | -1.15 | N/A |
| VH299408 | 1 | 0.60 | 0.23 | N/A |
| VH299409 | 2 | 0.58 | 0.46 | 0.45, -0.45 |
| VH299410 | 1 | 0.72 | 2.98 | N/A |
| VH299411 | 2 | 0.82 | 1.60 | N/A |
| VH299412 | 3 | 0.39 | 2.13 | -0.93, 0.67, 0.26 |
| VH299043 | 2 | 0.88 | 0.90 | -0.06, 0.06 |
| VH299044 | 2 | 1.14 | 1.73 | 0.11, -0.11 |
| VH299045 | 2 | 0.81 | 1.11 | -0.16, 0.16 |
| VH299046 | 2 | 0.48 | 0.86 | -2.87, 2.87 |
| VH324334 | 1 | 0.90 | 0.73 | N/A |
| VH324338 | 1 | 1.26 | 0.83 | N/A |
| VH299143 | 2 | 0.73 | 1.03 | -0.20, 0.20 |
| VH299151 | 2 | 0.88 | 1.73 | -0.29, 0.29 |
| VH299164 | 2 | 0.82 | 1.14 | -0.24, 0.24 |
| VH299169 | 2 | 0.37 | 0.74 | -3.58, 3.58 |
| VH324347 | 1 | 1.09 | 0.92 | N/A |
| VH324348 | 1 | 1.11 | 0.82 | N/A |
| VH300303 | 1 | 1.30 | 0.43 | N/A |
| VH300305 | 1 | 1.21 | 0.75 | N/A |
| VH300306 | 2 | 0.63 | 1.34 | -0.17, 0.17 |
| VH300307 | 2 | 1.01 | 1.84 | 0.13, -0.13 |
| VH300308 | 2 | 0.79 | 1.49 | 0.00, 0.00 |
| VH300309 | 2 | 0.42 | 0.63 | -3.01, 3.01 |
| VH299594 | 2 | 0.59 | -0.49 | -1.83, 1.83 |

Table 8.A.94 *(continuation two)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299595 | 2 | 0.69 | 0.87 | -0.33, 0.33 |
| VH299597 | 2 | 0.83 | 1.69 | -0.15, 0.15 |
| VH299601 | 3 | 0.55 | 0.91 | -0.58, -0.54, 1.13 |
| VH324336 | 1 | 0.73 | 1.24 | N/A |
| VH324337 | 1 | 1.16 | 0.98 | N/A |
| VH299991 | 1 | 0.70 | -0.73 | N/A |
| VH299992 | 2 | 0.54 | 0.82 | -3.35, 3.35 |
| VH299993 | 2 | 0.34 | 1.47 | -0.91, 0.91 |
| VH299994 | 2 | 0.57 | 0.99 | -0.86, 0.86 |
| VH299995 | 2 | 0.65 | 0.55 | 1.17, -1.17 |
| VH299850 | 1 | 0.56 | -1.14 | N/A |
| VH299852 | 2 | 0.69 | 0.51 | -1.94, 1.94 |
| VH299855 | 2 | 0.87 | 2.02 | -0.30, 0.30 |
| VH299857 | 2 | 0.39 | 0.95 | -0.53, 0.53 |
| VH299860 | 1 | 0.53 | 2.20 | N/A |
| VH299861 | 2 | 0.68 | 0.57 | -0.34, 0.34 |
| VH299186 | 1 | 0.94 | -0.22 | N/A |
| VH299187 | 1 | 0.90 | 1.12 | N/A |
| VH299188 | 3 | 0.82 | 1.36 | 1.00, -1.29, 0.29 |
| VH299190 | 1 | 0.54 | 0.70 | N/A |
| VH299692 | 1 | 1.10 | 0.91 | N/A |
| VH299693 | 1 | 1.13 | 0.68 | N/A |
| VH299695 | 2 | 0.82 | 1.06 | 0.05, -0.05 |
| VH299696 | 2 | 0.91 | 1.86 | -0.12, 0.12 |
| VH299697 | 2 | 0.84 | 1.30 | 0.04, -0.04 |
| VH299699 | 2 | 0.39 | 0.83 | -3.11, 3.11 |
| VH945805 | 1 | 0.51 | -0.17 | N/A |
| VH945806 | 1 | 0.87 | 0.90 | N/A |
| VH945807 | 2 | 0.62 | 0.32 | -0.25, 0.25 |
| VH945808 | 1 | 0.71 | 1.79 | N/A |
| VH945809 | 2 | 0.51 | 1.49 | 0.04, -0.04 |

Table 8.A. PT Item Statistics for Grade Six—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299516 | 1 | 0.79 | -0.14 | N/A |
| VH299517 | 1 | 0.61 | -0.65 | N/A |
| VH299518 | 2 | 0.69 | 1.68 | -0.19, 0.19 |
| VH299520 | 2 | 0.68 | 1.48 | -0.29, 0.29 |
| VH299521 | 1 | 1.12 | 1.63 | N/A |
| VH299522 | 2 | 0.70 | 1.78 | -0.95, 0.95 |
| VH300153 | 2 | 0.59 | 2.14 | -0.84, 0.84 |
| VH300155 | 2 | 0.73 | 1.36 | -0.25, 0.25 |
| VH300163 | 2 | 0.71 | 1.47 | -0.74, 0.74 |
| VH303296 | 1 | 0.81 | 0.13 | N/A |
| VH324157 | 1 | 0.86 | -0.64 | N/A |
| VH324158 | 1 | 0.91 | -0.21 | N/A |
| VH299579 | 1 | 0.75 | -0.38 | N/A |
| VH299580 | 1 | 0.74 | 0.37 | N/A |
| VH299582 | 1 | 0.98 | 0.46 | N/A |
| VH299583 | 1 | 0.69 | -0.79 | N/A |
| VH299585 | 1 | 1.19 | 0.89 | N/A |
| VH299586 | 2 | 0.41 | 2.30 | 1.11, -1.11 |
| VH299480 | 1 | 0.77 | 1.49 | N/A |
| VH299481 | 1 | 0.92 | 2.24 | N/A |
| VH299482 | 1 | 0.83 | 1.19 | N/A |
| VH299484 | 2 | 0.40 | -0.60 | -0.34, 0.34 |
| VH299485 | 2 | 0.51 | 0.65 | 0.39, -0.39 |
| VH299486 | 2 | 0.96 | 1.73 | -0.18, 0.18 |
| VH300192 | 1 | 0.81 | -0.15 | N/A |
| VH300193 | 1 | 0.71 | -0.65 | N/A |
| VH300195 | 2 | 0.51 | 2.33 | -1.15, 1.15 |
| VH300196 | 2 | 0.66 | 1.56 | -0.32, 0.32 |
| VH300197 | 1 | 1.03 | 1.55 | N/A |
| VH300198 | 2 | 0.56 | 1.88 | -0.09, 0.09 |
| VH300378 | 1 | 0.77 | -0.19 | N/A |
| VH300380 | 1 | 0.70 | 0.22 | N/A |
| VH300384 | 1 | 1.01 | 0.53 | N/A |
| VH300390 | 1 | 1.29 | 0.79 | N/A |
| VH300397 | 2 | 0.60 | 1.62 | 0.95, -0.95 |
| VH321665 | 1 | 0.75 | -0.61 | N/A |
| VH300109 | 2 | 0.62 | 1.72 | -0.59, 0.59 |

Table 8.A.95 *(continuation one)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH300114 | 2 | 0.70 | 1.41 | -0.24, 0.24 |
| VH300125 | 1 | 1.08 | 1.46 | N/A |
| VH300126 | 2 | 0.76 | 1.79 | -0.48, 0.48 |
| VH324159 | 1 | 0.76 | 0.26 | N/A |
| VH324160 | 1 | 0.67 | -0.87 | N/A |
| VH299786 | 1 | 0.67 | -0.23 | N/A |
| VH299787 | 1 | 0.71 | 0.46 | N/A |
| VH299788 | 1 | 0.82 | 0.45 | N/A |
| VH299789 | 1 | 0.59 | -0.69 | N/A |
| VH299790 | 2 | 0.58 | 1.27 | 1.13, -1.13 |
| VH299792 | 2 | 0.50 | 2.21 | 0.48, -0.48 |
| VH945799 | 1 | 0.69 | 0.49 | N/A |
| VH945800 | 1 | 0.69 | 0.23 | N/A |
| VH945801 | 2 | 0.42 | 1.59 | -0.34, 0.34 |
| VH945802 | 2 | 0.65 | 1.93 | -0.55, 0.55 |
| VH945803 | 2 | 0.61 | 2.04 | 0.07, -0.07 |
| VH299650 | 1 | 0.82 | -0.81 | N/A |
| VH299651 | 2 | 0.68 | 1.49 | -0.38, 0.38 |
| VH299652 | 2 | 0.65 | 1.39 | -0.26, 0.26 |
| VH299653 | 1 | 0.73 | -0.33 | N/A |
| VH299655 | 2 | 0.55 | 1.42 | -0.84, 0.84 |
| VH299282 | 1 | 0.86 | 0.90 | N/A |
| VH299283 | 2 | 0.40 | -0.27 | -0.39, 0.39 |
| VH299285 | 2 | 0.61 | 0.72 | 0.28, -0.28 |
| VH299287 | 2 | 0.67 | 2.01 | -0.50, 0.50 |
| VH324186 | 1 | 1.13 | 2.08 | N/A |
| VH953701 | 1 | 0.59 | -0.70 | N/A |
| VH953702 | 1 | 0.57 | -0.82 | N/A |
| VH953703 | 1 | 0.52 | -0.02 | N/A |
| VH953704 | 2 | 0.59 | 1.67 | -2.37, 2.37 |
| VH953705 | 2 | 0.63 | 0.00 | -0.28, 0.28 |
| VH953706 | 2 | 0.79 | 1.48 | -0.62, 0.62 |
| VH953693 | 1 | 0.63 | -0.95 | N/A |
| VH953694 | 1 | 0.63 | -0.85 | N/A |
| VH953695 | 1 | 0.54 | -0.45 | N/A |
| VH953696 | 2 | 0.63 | 1.55 | -0.43, 0.43 |
| VH953697 | 2 | 0.44 | 0.64 | -1.37, 1.37 |

Table 8.A.95 *(continuation two)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH953698 | 2 | 0.82 | 1.80 | -0.32, 0.32 |
| VH299450 | 1 | 0.82 | 0.35 | N/A |
| VH299451 | 1 | 0.65 | -0.54 | N/A |
| VH299453 | 2 | 0.57 | 2.03 | -0.81, 0.81 |
| VH299454 | 2 | 0.63 | 1.56 | -0.32, 0.32 |
| VH299455 | 1 | 1.02 | 1.70 | N/A |
| VH299456 | 2 | 0.60 | 1.62 | -0.08, 0.08 |
| VH300200 | 1 | 0.57 | -0.19 | N/A |
| VH300201 | 1 | 0.69 | 0.24 | N/A |
| VH300202 | 1 | 0.82 | 0.50 | N/A |
| VH300204 | 1 | 0.55 | -0.79 | N/A |
| VH300205 | 2 | 0.52 | 1.47 | 1.14, -1.14 |
| VH300206 | 2 | 0.55 | 1.93 | 0.35, -0.35 |
| VH945791 | 2 | 0.60 | 2.18 | 0.46, -0.46 |
| VH945792 | 1 | 0.68 | 0.13 | N/A |
| VH945793 | 1 | 0.66 | 0.25 | N/A |
| VH945795 | 2 | 0.60 | 1.47 | 0.66, -0.66 |
| VH945796 | 2 | 0.57 | 1.86 | -0.60, 0.60 |

Table 8.A. PT Item Statistics for Grade Seven—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299921 | 1 | 0.86 | 0.33 | N/A |
| VH299922 | 1 | 0.72 | 1.29 | N/A |
| VH299923 | 1 | 1.34 | 2.65 | N/A |
| VH299926 | 1 | 0.84 | 1.81 | N/A |
| VH299927 | 2 | 0.51 | 4.02 | 1.43, -1.43 |
| VH300444 | 1 | 0.76 | 2.08 | N/A |
| VH300446 | 1 | 0.86 | -0.35 | N/A |
| VH300447 | 1 | 1.00 | 1.97 | N/A |
| VH300448 | 1 | 0.15 | 3.38 | N/A |
| VH300449 | 2 | 0.77 | 1.20 | -0.04, 0.04 |
| VH299947 | 1 | 0.69 | 1.17 | N/A |
| VH299948 | 1 | 0.70 | -0.75 | N/A |
| VH299949 | 1 | 1.07 | 1.27 | N/A |
| VH299950 | 2 | 0.66 | 1.33 | 0.55, -0.55 |
| VH299952 | 1 | 1.03 | 2.10 | N/A |
| VH299953 | 2 | 0.82 | 2.33 | -0.21, 0.21 |
| VH300318 | 1 | 1.05 | 2.83 | N/A |
| VH300320 | 2 | 0.68 | 1.20 | 0.67, -0.67 |
| VH300323 | 1 | 0.21 | 3.75 | N/A |
| VH324153 | 1 | 1.19 | 1.95 | N/A |
| VH324154 | 1 | 1.10 | 1.03 | N/A |
| VH300257 | 1 | 0.41 | 0.59 | N/A |
| VH300259 | 2 | 0.82 | 1.17 | -0.05, 0.05 |
| VH324199 | 1 | 0.73 | 0.40 | N/A |
| VH324200 | 1 | 0.85 | -0.57 | N/A |
| VH324201 | 1 | 0.92 | 1.98 | N/A |
| VH299245 | 1 | 0.82 | 0.98 | N/A |
| VH299246 | 1 | 1.10 | 2.00 | N/A |
| VH299247 | 1 | 1.27 | 2.22 | N/A |
| VH299248 | 2 | 0.91 | 2.91 | -0.03, 0.03 |
| VH299249 | 1 | 1.40 | 2.18 | N/A |
| VH299865 | 1 | 0.68 | 1.40 | N/A |
| VH299866 | 1 | 0.71 | -0.72 | N/A |
| VH299868 | 1 | 1.35 | 1.34 | N/A |
| VH299869 | 2 | 0.85 | 1.24 | 0.46, -0.46 |
| VH299871 | 1 | 1.30 | 2.05 | N/A |
| VH299872 | 2 | 0.82 | 2.17 | -0.45, 0.45 |

Table 8.A.96 *(continuation one)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH300087 | 1 | 1.02 | 0.77 | N/A |
| VH300089 | 1 | 1.14 | 2.27 | N/A |
| VH300090 | 2 | 0.87 | 2.56 | -0.41, 0.41 |
| VH300091 | 2 | 0.69 | 1.32 | 0.55, -0.55 |
| VH300092 | 1 | 1.42 | 2.06 | N/A |
| VH299212 | 1 | 1.68 | 2.54 | N/A |
| VH299227 | 2 | 0.53 | 3.75 | 1.14, -1.14 |
| VH303301 | 2 | 0.87 | 2.32 | 0.21, -0.21 |
| VH303302 | 1 | 0.92 | 1.78 | N/A |
| VH324170 | 1 | 0.95 | 0.15 | N/A |
| VH324171 | 1 | 0.90 | 1.13 | N/A |
| VH299073 | 1 | 0.75 | -0.86 | N/A |
| VH299074 | 1 | 1.02 | 1.88 | N/A |
| VH324172 | 1 | 0.79 | 1.20 | N/A |
| VH324173 | 1 | 0.83 | -0.57 | N/A |
| VH300066 | 1 | 0.84 | 0.49 | N/A |
| VH300067 | 1 | 0.93 | 0.26 | N/A |
| VH300068 | 1 | 1.06 | 1.93 | N/A |
| VH300069 | 1 | 0.38 | 0.75 | N/A |
| VH300070 | 2 | 1.02 | 1.22 | 0.11, -0.11 |
| VH300071 | 2 | 0.74 | 0.99 | -0.22, 0.22 |
| VH300019 | 1 | 0.70 | 1.29 | N/A |
| VH300020 | 1 | 0.71 | -0.62 | N/A |
| VH300021 | 1 | 0.68 | -0.88 | N/A |
| VH300022 | 1 | 0.95 | 1.95 | N/A |
| VH945900 | 1 | 0.86 | 0.07 | N/A |
| VH945901 | 1 | 0.98 | 2.17 | N/A |
| VH945902 | 2 | 0.67 | 1.76 | -0.10, 0.10 |
| VH945903 | 2 | 0.56 | 1.45 | -1.41, 1.41 |
| VH945904 | 3 | 0.51 | 2.36 | 0.12, -0.34, 0.23 |
| VH299570 | 1 | 1.01 | 1.35 | N/A |
| VH299571 | 1 | 0.91 | 1.83 | N/A |
| VH299572 | 1 | 1.22 | 2.28 | N/A |
| VH299574 | 1 | 1.52 | 2.41 | N/A |
| VH299575 | 2 | 0.78 | 1.17 | 0.51, -0.51 |
| VH299577 | 2 | 0.36 | 2.83 | 2.66, -2.66 |
| VH299237 | 1 | 1.03 | 1.11 | N/A |

Table 8.A.96 *(continuation two)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299238 | 1 | 1.43 | 1.74 | N/A |
| VH299239 | 1 | 1.37 | 2.20 | N/A |
| VH299240 | 1 | 1.14 | 2.77 | N/A |
| VH299242 | 2 | 0.34 | 3.09 | 2.58, -2.58 |
| VH299051 | 1 | 0.65 | 0.41 | N/A |
| VH299053 | 1 | 0.79 | 2.09 | N/A |
| VH299054 | 1 | 0.15 | 2.71 | N/A |
| VH299055 | 2 | 0.69 | 1.36 | -0.07, 0.07 |

Table 8.A. PT Item Statistics for Grade Eight—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299084 | 1 | 1.17 | 1.11 | N/A |
| VH299085 | 1 | 1.13 | 2.58 | N/A |
| VH299087 | 2 | 0.75 | 1.94 | 1.01, -1.01 |
| VH299088 | 1 | 0.66 | 2.49 | N/A |
| VH945880 | 1 | 0.51 | 0.19 | N/A |
| VH945881 | 1 | 0.74 | 2.14 | N/A |
| VH945882 | 1 | 0.66 | 2.33 | N/A |
| VH945883 | 1 | 0.42 | -2.84 | N/A |
| VH945884 | 1 | 0.37 | 1.13 | N/A |
| VH945885 | 2 | 0.51 | 2.81 | -0.95, 0.95 |
| VH299709 | 1 | 0.85 | 1.71 | N/A |
| VH299710 | 1 | 1.09 | 2.14 | N/A |
| VH299711 | 2 | 0.47 | -0.07 | 0.36, -0.36 |
| VH299712 | 1 | 0.88 | 1.30 | N/A |
| VH299713 | 2 | 0.57 | 2.61 | -0.53, 0.53 |
| VH300080 | 1 | 1.00 | 1.41 | N/A |
| VH300081 | 2 | 0.78 | 2.95 | -0.02, 0.02 |
| VH300083 | 1 | 0.95 | 1.67 | N/A |
| VH300084 | 1 | 1.20 | 2.03 | N/A |
| VH300085 | 2 | 0.47 | 0.51 | -0.32, 0.32 |
| VH300053 | 1 | 1.15 | 1.64 | N/A |
| VH300054 | 2 | 1.24 | 1.86 | 0.42, -0.42 |
| VH300055 | 2 | 0.51 | 1.49 | -0.62, 0.62 |
| VH300056 | 1 | 0.79 | 0.70 | N/A |
| VH300337 | 2 | 1.36 | 2.24 | 0.60, -0.60 |
| VH300340 | 1 | 0.66 | 1.67 | N/A |
| VH300345 | 2 | 0.56 | 2.50 | 0.76, -0.76 |
| VH324155 | 1 | 0.98 | 1.69 | N/A |
| VH324156 | 1 | 0.73 | 2.90 | N/A |
| VH945887 | 1 | 0.56 | -1.32 | N/A |
| VH945888 | 1 | 0.49 | -0.29 | N/A |
| VH945889 | 2 | 0.46 | 1.44 | 0.92, -0.92 |
| VH945890 | 2 | 0.72 | 1.63 | 0.05, -0.05 |
| VH945891 | 2 | 0.50 | 1.78 | 0.73, -0.73 |
| VH299737 | 1 | 1.16 | 1.46 | N/A |
| VH299738 | 1 | 1.19 | 1.86 | N/A |
| VH299739 | 2 | 0.82 | 1.85 | -0.10, 0.10 |

Table 8.A.97 *(continuation one)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299741 | 2 | 0.54 | 1.49 | -0.42, 0.42 |
| VH299742 | 1 | 0.86 | 0.85 | N/A |
| VH299312 | 1 | 1.22 | 2.06 | N/A |
| VH299314 | 2 | 0.74 | 2.15 | -0.20, 0.20 |
| VH299320 | 1 | 0.96 | 1.63 | N/A |
| VH299325 | 2 | 0.78 | 3.16 | 0.06, -0.06 |
| VH324250 | 1 | 0.92 | 1.69 | N/A |
| VH300242 | 1 | 0.87 | 1.71 | N/A |
| VH300243 | 1 | 1.13 | 2.10 | N/A |
| VH300245 | 2 | 0.44 | 0.03 | 0.31, -0.31 |
| VH300246 | 1 | 0.88 | 1.29 | N/A |
| VH300247 | 2 | 0.59 | 2.52 | -0.78, 0.78 |
| VH299802 | 1 | 1.16 | 2.12 | N/A |
| VH299806 | 2 | 0.79 | 2.11 | -0.17, 0.17 |
| VH299807 | 1 | 0.99 | 1.62 | N/A |
| VH299811 | 2 | 0.86 | 2.78 | 0.02, -0.02 |
| VH324249 | 1 | 0.98 | 1.74 | N/A |
| VH299897 | 1 | 1.01 | 1.36 | N/A |
| VH299899 | 1 | 1.18 | 2.78 | N/A |
| VH299900 | 2 | 0.82 | 2.10 | 0.74, -0.74 |
| VH299901 | 2 | 0.85 | 2.40 | 0.36, -0.36 |
| VH299902 | 1 | 0.67 | 1.70 | N/A |
| VH299489 | 1 | 0.82 | 1.51 | N/A |
| VH299490 | 1 | 0.87 | 1.73 | N/A |
| VH299492 | 1 | 1.15 | 2.09 | N/A |
| VH299493 | 2 | 0.42 | 0.17 | 0.07, -0.07 |
| VH299494 | 2 | 0.75 | 3.27 | 0.10, -0.10 |
| VH945779 | 1 | 0.46 | -1.57 | N/A |
| VH945780 | 1 | 0.52 | -0.20 | N/A |
| VH945781 | 2 | 0.67 | 1.59 | 0.02, -0.02 |
| VH945782 | 2 | 0.40 | 1.48 | 1.02, -1.02 |
| VH945783 | 2 | 0.48 | 1.90 | 0.85, -0.85 |
| VH945760 | 1 | 0.77 | 0.96 | N/A |
| VH945761 | 1 | 0.53 | -0.18 | N/A |
| VH945762 | 1 | 0.68 | 2.52 | N/A |

Table 8.A.97 *(continuation two)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH945763 | 1 | 0.34 | 0.24 | N/A |
| VH945764 | 1 | 0.50 | 1.29 | N/A |
| VH945765 | 2 | 0.52 | 3.09 | -0.57, 0.57 |
| VH299669 | 2 | 1.08 | 2.31 | 0.28, -0.28 |
| VH299670 | 1 | 0.71 | 1.24 | N/A |
| VH324168 | 1 | 0.92 | 1.54 | N/A |
| VH324169 | 1 | 0.73 | 2.21 | N/A |

Table 8.A. PT Item Statistics for Grade Eleven—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH945893 | 1 | 0.48 | 1.41 | N/A |
| VH945894 | 1 | 0.82 | 1.73 | N/A |
| VH945895 | 1 | 0.87 | 2.34 | N/A |
| VH945896 | 1 | 0.99 | 2.33 | N/A |
| VH945897 | 2 | 0.45 | 2.11 | -1.41, 1.41 |
| VH945898 | 2 | 0.40 | 1.80 | -1.50, 1.50 |
| VH953745 | 1 | 0.53 | 1.46 | N/A |
| VH953747 | 1 | 0.65 | 1.86 | N/A |
| VH953748 | 1 | 0.85 | 2.41 | N/A |
| VH953749 | 1 | 0.46 | 0.62 | N/A |
| VH953750 | 2 | 0.37 | 2.83 | -1.39, 1.39 |
| VH300222 | 2 | 0.57 | 1.90 | 0.22, -0.22 |
| VH300224 | 2 | 0.34 | 2.74 | 1.97, -1.97 |
| VH300226 | 2 | 0.48 | 3.42 | 0.87, -0.87 |
| VH324183 | 2 | 0.44 | 2.87 | -0.69, 0.69 |
| VH324184 | 2 | 0.41 | 1.50 | -1.76, 1.76 |
| VH299657 | 1 | 0.94 | 1.44 | N/A |
| VH299659 | 1 | 1.11 | 3.47 | N/A |
| VH299660 | 2 | 0.55 | 4.24 | -2.44, 2.44 |
| VH299661 | 2 | 0.37 | 3.64 | -2.66, 2.66 |
| VH299662 | 3 | 0.70 | 3.15 | -0.74, 0.52, 0.22 |
| VH299956 | 1 | 1.14 | 3.30 | N/A |
| VH299958 | 2 | 0.67 | 4.05 | -1.39, 1.39 |
| VH299961 | 2 | 0.35 | 2.81 | -1.97, 1.97 |
| VH299965 | 3 | 0.75 | 3.07 | -0.83, 0.17, 0.66 |
| VH324388 | 1 | 0.83 | 1.32 | N/A |
| VH324389 | 3 | 0.47 | 2.70 | 1.01, -1.50, 0.49 |
| VH945811 | 1 | 0.62 | 3.96 | N/A |
| VH945812 | 1 | 0.68 | 2.17 | N/A |
| VH945813 | 2 | 0.34 | 2.91 | -3.32, 3.32 |
| VH945814 | 2 | 0.62 | 3.53 | -0.25, 0.25 |
| VH945815 | 3 | 0.33 | 3.13 | 0.18, 0.52, -0.70 |
| VH299833 | 1 | 0.37 | 6.44 | N/A |
| VH299834 | 1 | 0.45 | 2.56 | N/A |
| VH299835 | 1 | 0.84 | 2.65 | N/A |
| VH299836 | 1 | 0.56 | 1.22 | N/A |
| VH299838 | 2 | 0.50 | 3.43 | -0.80, 0.80 |

Table 8.A.98 *(continuation)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299383 | 1 | 0.86 | 1.38 | N/A |
| VH299384 | 1 | 0.90 | 2.41 | N/A |
| VH299385 | 1 | 0.60 | 2.04 | N/A |
| VH299386 | 2 | 0.56 | 2.90 | -1.11, 1.11 |
| VH299387 | 3 | 0.74 | 3.09 | -0.66, 0.71, -0.05 |
| VH300173 | 1 | 1.07 | 1.38 | N/A |
| VH300174 | 1 | 0.89 | 1.88 | N/A |
| VH300176 | 1 | 0.65 | 1.93 | N/A |
| VH300177 | 2 | 0.30 | 2.52 | -2.44, 2.44 |
| VH300178 | 3 | 0.58 | 3.20 | -1.08, 0.88, 0.20 |
| VH299551 | 1 | 0.42 | 4.13 | N/A |
| VH299552 | 1 | 0.40 | 2.66 | N/A |
| VH299553 | 1 | 0.79 | 2.44 | N/A |
| VH299554 | 1 | 0.66 | 1.81 | N/A |
| VH299555 | 2 | 0.37 | 3.07 | -1.90, 1.90 |
| VH299976 | 2 | 0.62 | 1.89 | 0.04, -0.04 |
| VH299977 | 2 | 0.34 | 3.23 | N/A |
| VH299979 | 2 | 0.47 | 1.37 | -1.14, 1.14 |
| VH299980 | 2 | 0.50 | 3.21 | 0.98, -0.98 |
| VH299905 | 1 | 1.09 | 3.26 | N/A |
| VH299910 | 2 | 0.39 | 2.77 | -1.54, 1.54 |
| VH299912 | 3 | 0.67 | 3.08 | -1.04, 0.57, 0.48 |
| VH303311 | 2 | 0.61 | 3.61 | -1.27, 1.27 |
| VH303312 | 3 | 0.60 | 2.82 | 0.68, -2.65, 1.98 |
| VH324349 | 1 | 0.98 | 1.50 | N/A |
| VH300128 | 1 | 0.70 | 1.51 | N/A |
| VH300129 | 1 | 1.28 | 3.60 | N/A |
| VH300132 | 2 | 0.37 | 3.61 | -1.90, 1.90 |
| VH300133 | 3 | 0.71 | 3.21 | -0.77, 0.15, 0.63 |

### Appendix 8.B: Omission and Completion Analyses

**Note:** An expression that opens with a parenthesis and closes with a bracket indicates that a value is greater than the first number and is less than or equal to the second number. For example, “(0.5, 2]” indicates the omit rate is greater than 0.5 but less than or equal to 2.

Table 8.B. Percentage Omit Rates for ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Section** | **0** | **(0, 0.5]** | **(0.5, 1]** | **(1, 5]** | **(5, 10]** | **(10, 50]** | **(50, 100]** |
| Grade 3 PT No. of Items | 18 | 36 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 PT Mean a | 0.68 | 0.65 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 PT Mean b | 0.35 | -0.41 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT No. of Items | 714 | 103 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT Mean a | 0.64 | 0.73 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT Mean b | -0.43 | -1.08 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT No. of Items | 21 | 42 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT Mean a | 0.61 | 0.63 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT Mean b | 0.36 | -0.03 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT No. of Items | 766 | 76 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT Mean a | 0.59 | 0.62 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT Mean b | 0.01 | -0.29 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 PT No. of Items | 24 | 44 | 2 | 2 | N/A | N/A | N/A |
| Grade 5 PT Mean a | 0.66 | 0.71 | 0.53 | 0.89 | N/A | N/A | N/A |
| Grade 5 PT Mean b | 0.90 | 0.00 | -0.06 | 0.20 | N/A | N/A | N/A |
| Grade 5 CAT No. of Items | 690 | 118 | N/A | 2 | N/A | N/A | N/A |
| Grade 5 CAT Mean a | 0.61 | 0.65 | N/A | 0.95 | N/A | N/A | N/A |
| Grade 5 CAT Mean b | 0.21 | -0.14 | N/A | -1.00 | N/A | N/A | N/A |
| Grade 6 PT No. of Items | 18 | N/A | 36 | N/A | N/A | N/A | N/A |
| Grade 6 PT Mean a | 0.74 | N/A | 0.81 | N/A | N/A | N/A | N/A |
| Grade 6 PT Mean b | 1.18 | N/A | 0.28 | N/A | N/A | N/A | N/A |
| Grade 6 CAT No. of Items | 574 | 210 | 1 | N/A | N/A | 1 | N/A |
| Grade 6 CAT Mean a | 0.54 | 0.58 | 0.64 | N/A | N/A | 0.75 | N/A |
| Grade 6 CAT Mean b | 0.92 | 0.48 | 2.18 | N/A | N/A | 0.94 | N/A |
| Grade 7 PT No. of Items | 23 | N/A | 12 | 34 | N/A | N/A | N/A |
| Grade 7 PT Mean a | 0.76 | N/A | 0.90 | 0.84 | N/A | N/A | N/A |
| Grade 7 PT Mean b | 1.51 | N/A | 0.48 | 0.57 | N/A | N/A | N/A |
| Grade 7 CAT No. of Items | 456 | 277 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 CAT Mean a | 0.52 | 0.56 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 CAT Mean b | 1.31 | 0.74 | N/A | N/A | N/A | N/A | N/A |

Table 8.B.1 *(continuation)*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Section** | **0** | **(0, 0.5]** | **(0.5, 1]** | **(1, 5]** | **(5, 10]** | **(10, 50]** | **(50, 100]** |
| Grade 8 PT No. of Items | 24 | N/A | 28 | 20 | N/A | N/A | N/A |
| Grade 8 PT Mean a | 0.66 | N/A | 0.71 | 0.73 | N/A | N/A | N/A |
| Grade 8 PT Mean b | 1.88 | N/A | 0.46 | 0.44 | N/A | N/A | N/A |
| Grade 8 CAT No. of Items | 486 | 310 | N/A | 2 | 1 | N/A | N/A |
| Grade 8 CAT Mean a | 0.50 | 0.58 | N/A | 0.68 | 0.36 | N/A | N/A |
| Grade 8 CAT Mean b | 1.25 | 0.85 | N/A | 2.40 | -0.07 | N/A | N/A |
| Grade 11 PT No. of Items | 23 | N/A | 10 | 36 | N/A | N/A | N/A |
| Grade 11 PT Mean a | 0.59 | N/A | 0.61 | 0.59 | N/A | N/A | N/A |
| Grade 11 PT Mean b | 1.83 | N/A | 1.33 | 1.22 | N/A | N/A | N/A |
| Grade 11 CAT No. of Items | 1,666 | 809 | 9 | 3 | N/A | N/A | N/A |
| Grade 11 CAT Mean a | 0.47 | 0.52 | 0.54 | 0.67 | N/A | N/A | N/A |
| Grade 11 CAT Mean b | 1.91 | 1.34 | 2.55 | 1.83 | N/A | N/A | N/A |

Table 8.B. Percentage Omit Rates for Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Section** | **0** | **(0, 0.5]** | **(0.5, 1]** | **(1, 5]** | **(5, 10]** | **(10, 50]** | **(50, 100]** |
| Grade 3 PT No. of Items | 18 | 72 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 PT Mean a | 1.01 | 0.85 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 PT Mean b | -1.18 | -0.55 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT No. of Items | 1,148 | 43 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT Mean a | 0.82 | 0.81 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT Mean b | -0.76 | -1.17 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT No. of Items | 24 | 82 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT Mean a | 0.81 | 0.84 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT Mean b | -0.70 | 0.08 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT No. of Items | 1,237 | 46 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT Mean a | 0.81 | 0.83 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT Mean b | -0.08 | -0.52 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 PT No. of Items | 14 | 79 | 12 | N/A | N/A | N/A | N/A |
| Grade 5 PT Mean a | 0.83 | 0.75 | 0.61 | N/A | N/A | N/A | N/A |
| Grade 5 PT Mean b | -0.08 | 0.82 | 1.57 | N/A | N/A | N/A | N/A |
| Grade 5 CAT No. of Items | 1,192 | 66 | 1 | N/A | N/A | N/A | N/A |
| Grade 5 CAT Mean a | 0.76 | 0.69 | 1.48 | N/A | N/A | N/A | N/A |
| Grade 5 CAT Mean b | 0.53 | -0.29 | 1.69 | N/A | N/A | N/A | N/A |
| Grade 6 PT No. of Items | 7 | 68 | 17 | N/A | N/A | N/A | N/A |
| Grade 6 PT Mean a | 0.70 | 0.70 | 0.72 | N/A | N/A | N/A | N/A |
| Grade 6 PT Mean b | -0.03 | 0.63 | 1.72 | N/A | N/A | N/A | N/A |
| Grade 6 CAT No. of Items | 988 | 132 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 CAT Mean a | 0.68 | 0.70 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 CAT Mean b | 1.20 | 0.48 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 PT No. of Items | 2 | 48 | 29 | 3 | N/A | N/A | N/A |
| Grade 7 PT Mean a | 0.93 | 0.87 | 0.85 | 1.07 | N/A | N/A | N/A |
| Grade 7 PT Mean b | 1.04 | 1.16 | 2.09 | 2.05 | N/A | N/A | N/A |
| Grade 7 CAT No. of Items | 846 | 174 | 1 | N/A | N/A | N/A | N/A |
| Grade 7 CAT Mean a | 0.72 | 0.69 | 0.34 | N/A | N/A | N/A | N/A |
| Grade 7 CAT Mean b | 1.97 | 1.39 | 3.47 | N/A | N/A | N/A | N/A |
| Grade 8 PT No. of Items | 4 | 61 | 14 | N/A | N/A | N/A | N/A |
| Grade 8 PT Mean a | 0.68 | 0.78 | 0.79 | N/A | N/A | N/A | N/A |
| Grade 8 PT Mean b | -0.09 | 1.55 | 2.13 | N/A | N/A | N/A | N/A |
| Grade 8 CAT No. of Items | 729 | 171 | 2 | N/A | N/A | N/A | N/A |
| Grade 8 CAT Mean a | 0.58 | 0.57 | 0.48 | N/A | N/A | N/A | N/A |
| Grade 8 CAT Mean b | 2.41 | 1.46 | 2.77 | N/A | N/A | N/A | N/A |

Table 8.B.2 *(continuation)*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Section** | **0** | **(0, 0.5]** | **(0.5, 1]** | **(1, 5]** | **(5, 10]** | **(10, 50]** | **(50, 100]** |
| Grade 11 PT No. of Items | 1 | 36 | 27 | 2 | N/A | N/A | N/A |
| Grade 11 PT Mean a | 0.37 | 0.65 | 0.60 | 0.59 | N/A | N/A | N/A |
| Grade 11 PT Mean b | 6.44 | 2.19 | 3.07 | 2.95 | N/A | N/A | N/A |
| Grade 11 CAT No. of Items | 2,329 | 226 | 2 | N/A | N/A | N/A | N/A |
| Grade 11 CAT Mean a | 0.58 | 0.54 | 0.69 | N/A | N/A | N/A | N/A |
| Grade 11 CAT Mean b | 2.67 | 1.69 | 1.53 | N/A | N/A | N/A | N/A |

Table 8.B. Item Completion, ELA

|  |  |  |
| --- | --- | --- |
| **Score** | **% Completion** | **Total N of Students** |
| Grade 3 Overall | 100.00% | 80,029 |
| Grade 3 Claim 1 | 99.95% | 79,987 |
| Grade 3 Claim 2 | 99.35% | 79,505 |
| Grade 3 Claim 3 | 99.87% | 79,923 |
| Grade 3 Claim 4 | 99.84% | 79,900 |
| Grade 3 PT | 100.00% | 80,029 |
| Grade 3 Non-PT | 100.00% | 80,029 |
| Grade 4 Overall | 100.00% | 82,494 |
| Grade 4 Claim 1 | 99.95% | 82,452 |
| Grade 4 Claim 2 | 99.39% | 81,987 |
| Grade 4 Claim 3 | 99.91% | 82,419 |
| Grade 4Claim 4 | 99.88% | 82,399 |
| Grade 4 PT | 100.00% | 82,494 |
| Grade 4 Non-PT | 100.00% | 82,494 |
| Grade 5 Overall | 100.00% | 84,164 |
| Grade 5 Claim 1 | 99.93% | 84,103 |
| Grade 5 Claim 2 | 99.36% | 83,629 |
| Grade 5 Claim 3 | 99.85% | 84,038 |
| Grade 5 Claim 4 | 99.81% | 84,000 |
| Grade 5 PT | 100.00% | 84,164 |
| Grade 5 Non-PT | 100.00% | 84,164 |
| Grade 6 Overall | 100.00% | 87,259 |
| Grade 6 Claim 1 | 99.32% | 86,664 |
| Grade 6 Claim 2 | 98.67% | 86,100 |
| Grade 6 Claim 3 | 99.39% | 86,724 |
| Grade 6 Claim 4 | 99.14% | 86,512 |
| Grade 6 PT | 100.00% | 87,259 |
| Grade 6 Non-PT | 100.00% | 87,259 |
| Grade 7 Overall | 100.00% | 96,798 |
| Grade 7 Claim 1 | 99.02% | 95,845 |
| Grade 7 Claim 2 | 97.98% | 94,842 |
| Grade 7 Claim 3 | 99.31% | 96,132 |
| Grade 7 Claim 4 | 98.74% | 95,582 |
| Grade 7 PT | 100.00% | 96,798 |
| Grade 7 Non-PT | 100.00% | 96,798 |

Table 8.B.3 *(continuation)*

|  |  |  |
| --- | --- | --- |
| **Score** | **% Completion** | **Total N of Students** |
| Grade 8 Overall | 100.00% | 98,297 |
| Grade 8 Claim 1 | 99.19% | 97,505 |
| Grade 8 Claim 2 | 98.35% | 96,677 |
| Grade 8 Claim 3 | 99.38% | 97,691 |
| Grade 8 Claim 4 | 98.97% | 97,280 |
| Grade 8 PT | 100.00% | 98,297 |
| Grade 8 Non-PT | 100.00% | 98,297 |
| Grade 11 Overall | 100.00% | 207,139 |
| Grade 11 Claim 1 | 99.11% | 205,302 |
| Grade 11 Claim 2 | 98.05% | 203,100 |
| Grade 11 Claim 3 | 99.24% | 205,563 |
| Grade 11 Claim 4 | 98.84% | 204,728 |
| Grade 11 PT | 100.00% | 207,139 |
| Grade 11 Non-PT | 100.00% | 207,139 |

Table 8.B. Item Completion, Mathematics

|  |  |  |
| --- | --- | --- |
| **Score** | **% Completion** | **Total N of Students** |
| Grade 3 Overall | 100.00% | 85,277 |
| Grade 3 Claim 1 | 99.94% | 85,225 |
| Grade 3 Claim 2 | 99.96% | 85,243 |
| Grade 3 Claim 3 | 99.97% | 85,250 |
| Grade 3 PT | 100.00% | 85,277 |
| Grade 3 Non-PT | 100.00% | 85,277 |
| Grade 4 Overall | 100.00% | 87,802 |
| Grade 4 Claim 1 | 99.91% | 87,724 |
| Grade 4 Claim 2 | 99.94% | 87,745 |
| Grade 4 Claim 3 | 99.95% | 87,760 |
| Grade 4 PT | 100.00% | 87,802 |
| Grade 4 Non-PT | 100.00% | 87,802 |
| Grade 5 Overall | 100.00% | 89,402 |
| Grade 5 Claim 1 | 99.93% | 89,335 |
| Grade 5 Claim 2 | 99.94% | 89,346 |
| Grade 5 Claim 3 | 99.98% | 89,382 |
| Grade 5 PT | 100.00% | 89,402 |
| Grade 5 Non-PT | 100.00% | 89,402 |
| Grade 6 Overall | 100.00% | 87,368 |
| Grade 6 Claim 1 | 99.69% | 87,096 |
| Grade 6 Claim 2 | 99.96% | 87,334 |
| Grade 6 Claim 3 | 99.99% | 87,359 |
| Grade 6 PT | 100.00% | 87,368 |
| Grade 6 Non-PT | 100.00% | 87,368 |
| Grade 7 Overall | 100.00% | 96,828 |
| Grade 7 Claim 1 | 99.28% | 96,134 |
| Grade 7 Claim 2 | 99.94% | 96,774 |
| Grade 7 Claim 3 | 99.97% | 96,800 |
| Grade 7 PT | 100.00% | 96,828 |
| Grade 7 Non-PT | 100.00% | 96,828 |
| Grade 8 Overall | 100.00% | 97,837 |
| Grade 8 Claim 1 | 99.31% | 97,165 |
| Grade 8 Claim 2 | 99.80% | 97,641 |
| Grade 8 Claim 3 | 99.99% | 97,831 |
| Grade 8 PT | 100.00% | 97,837 |
| Grade 8 Non-PT | 100.00% | 97,837 |

Table 8.B.4 *(continuation)*

|  |  |  |
| --- | --- | --- |
| **Score** | **% Completion** | **Total N of Students** |
| Grade 11 Overall | 100.00% | 199,959 |
| Grade 11 Claim 1 | 99.71% | 199,373 |
| Grade 11 Claim 2 | 99.56% | 199,071 |
| Grade 11 Claim 3 | 99.94% | 199,836 |
| Grade 11 PT | 100.00% | 199,959 |
| Grade 11 Non-PT | 100.00% | 199,959 |

### Appendix 8.C: Item Exposure

**Note:** Only the frequencies of the operational items are presented in these tables.

Table 8.C. Item Exposure Frequency—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| Grade 3 Overall | 909 | 38 | 42 | 102 | 104 | 415 | 208 |
| Grade 3 Claim 1 | 317 | 32 | 20 | 26 | 15 | 156 | 68 |
| Grade 3 Claim 2 | 262 | 1 | 1 | 51 | 55 | 100 | 54 |
| Grade 3 Claim 3 | 183 | 4 | 18 | 22 | 9 | 104 | 26 |
| Grade 3 Claim 4 | 147 | 1 | 3 | 3 | 25 | 55 | 60 |
| Grade 4 Overall | 952 | 47 | 57 | 106 | 192 | 316 | 234 |
| Grade 4 Claim 1 | 279 | 21 | 25 | 28 | 29 | 94 | 82 |
| Grade 4 Claim 2 | 300 | 13 | 14 | 28 | 81 | 99 | 65 |
| Grade 4 Claim 3 | 201 | 9 | 14 | 35 | 51 | 64 | 28 |
| Grade 4 Claim 4 | 172 | 4 | 4 | 15 | 31 | 59 | 59 |
| Grade 5 Overall | 964 | 82 | 41 | 147 | 138 | 315 | 241 |
| Grade 5 Claim 1 | 318 | 65 | 18 | 53 | 14 | 69 | 99 |
| Grade 5 Claim 2 | 313 | 6 | 13 | 57 | 86 | 85 | 66 |
| Grade 5 Claim 3 | 168 | 9 | 7 | 32 | 27 | 65 | 28 |
| Grade 5 Claim 4 | 165 | 2 | 3 | 5 | 11 | 96 | 48 |
| Grade 6 Overall | 940 | 100 | 32 | 189 | 153 | 247 | 219 |
| Grade 6 Claim 1 | 276 | 57 | 21 | 46 | 21 | 49 | 82 |
| Grade 6 Claim 2 | 312 | 31 | 1 | 74 | 78 | 69 | 59 |
| Grade 6 Claim 3 | 178 | 6 | 8 | 66 | 26 | 36 | 36 |
| Grade 6 Claim 4 | 174 | 6 | 2 | 3 | 28 | 93 | 42 |
| Grade 7 Overall | 905 | 103 | 25 | 82 | 135 | 289 | 271 |
| Grade 7 Claim 1 | 277 | 55 | 15 | 23 | 17 | 65 | 102 |
| Grade 7 Claim 2 | 309 | 26 | 5 | 27 | 69 | 116 | 66 |
| Grade 7 Claim 3 | 176 | 13 | 5 | 23 | 34 | 63 | 38 |
| Grade 7 Claim 4 | 143 | 9 | N/A | 9 | 15 | 45 | 65 |

Table 8.C.1 *(continuation)*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| Grade 8 Overall | 978 | 107 | 41 | 106 | 138 | 293 | 293 |
| Grade 8 Claim 1 | 284 | 72 | 12 | 23 | 11 | 58 | 108 |
| Grade 8 Claim 2 | 340 | 18 | 15 | 35 | 65 | 138 | 69 |
| Grade 8 Claim 3 | 212 | 12 | 12 | 34 | 55 | 59 | 40 |
| Grade 8 Claim 4 | 142 | 5 | 2 | 14 | 7 | 38 | 76 |
| Grade 11 Overall | 2,713 | 157 | 102 | 494 | 491 | 1,031 | 438 |
| Grade 11 Claim 1 | 900 | 92 | 75 | 141 | 70 | 268 | 254 |
| Grade 11 Claim 2 | 809 | 30 | 2 | 190 | 208 | 306 | 73 |
| Grade 11 Claim 3 | 604 | 22 | 24 | 122 | 172 | 238 | 26 |
| Grade 11 Claim 4 | 400 | 13 | 1 | 41 | 41 | 219 | 85 |

Table 8.C. Item Exposure Frequency—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| Grade 3 Overall | 1,285 | 4 | 110 | 304 | 367 | 271 | 229 |
| Grade 3 Claim 1 | 771 | N/A | 87 | 142 | 281 | 182 | 79 |
| Grade 3 Claim 2 | 278 | 4 | 3 | 112 | 37 | 37 | 85 |
| Grade 3 Claim 3 | 236 | N/A | 20 | 50 | 49 | 52 | 65 |
| Grade 4 Overall | 1,412 | 23 | 23 | 564 | 298 | 263 | 241 |
| Grade 4 Claim 1 | 852 | 21 | 11 | 355 | 223 | 171 | 71 |
| Grade 4 Claim 2 | 313 | 1 | 5 | 122 | 42 | 44 | 99 |
| Grade 4 Claim 3 | 247 | 1 | 7 | 87 | 33 | 48 | 71 |
| Grade 5 Overall | 1,379 | 15 | 44 | 447 | 336 | 323 | 214 |
| Grade 5 Claim 1 | 829 | 13 | 18 | 250 | 266 | 230 | 52 |
| Grade 5 Claim 2 | 301 | 1 | 1 | 129 | 39 | 32 | 99 |
| Grade 5 Claim 3 | 249 | 1 | 25 | 68 | 31 | 61 | 63 |
| Grade 6 Overall | 1,212 | N/A | N/A | 422 | 343 | 230 | 217 |
| Grade 6 Claim 1 | 757 | N/A | N/A | 263 | 260 | 169 | 65 |
| Grade 6 Claim 2 | 235 | N/A | N/A | 96 | 37 | 15 | 87 |
| Grade 6 Claim 3 | 220 | N/A | N/A | 63 | 46 | 46 | 65 |
| Grade 7 Overall | 1,103 | N/A | N/A | 446 | 245 | 170 | 242 |
| Grade 7 Claim 1 | 692 | N/A | N/A | 294 | 183 | 116 | 99 |
| Grade 7 Claim 2 | 240 | N/A | N/A | 94 | 37 | 28 | 81 |
| Grade 7 Claim 3 | 171 | N/A | N/A | 58 | 25 | 26 | 62 |
| Grade 8 Overall | 981 | N/A | 2 | 333 | 219 | 203 | 224 |
| Grade 8 Claim 1 | 636 | N/A | 1 | 190 | 179 | 180 | 86 |
| Grade 8 Claim 2 | 185 | N/A | N/A | 77 | 16 | 13 | 79 |
| Grade 8 Claim 3 | 160 | N/A | 1 | 66 | 24 | 10 | 59 |
| Grade 11 Overall | 2,624 | 1 | 29 | 1,463 | 373 | 423 | 335 |
| Grade 11 Claim 1 | 1,813 | N/A | 4 | 1,022 | 285 | 337 | 165 |
| Grade 11 Claim 2 | 388 | 1 | 14 | 243 | 22 | 22 | 86 |
| Grade 11 Claim 3 | 423 | N/A | 11 | 198 | 66 | 64 | 84 |

Table 8.C. Conditional Exposure by Difficulty for Grade Three—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (5.5, 6.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (5.0, 5.5] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (4.5, 5.0] | 1 | 1 | N/A | N/A | N/A | N/A | N/A |
| (4.0, 4.5] | 1 | N/A | N/A | 1 | N/A | N/A | N/A |
| (3.5, 4.0] | 2 | N/A | 1 | N/A | 1 | N/A | N/A |
| (3.0, 3.5] | 1 | N/A | 1 | N/A | N/A | N/A | N/A |
| (2.5, 3.0] | 4 | N/A | 1 | 1 | N/A | 2 | N/A |
| (2.0, 2.5] | 8 | N/A | N/A | 2 | 1 | 5 | N/A |
| (1.5, 2.0] | 20 | N/A | 4 | 2 | 4 | 7 | 3 |
| (1.0, 1.5] | 44 | 5 | 4 | 4 | 12 | 16 | 3 |
| (0.5, 1.0] | 86 | 3 | 5 | 9 | 22 | 37 | 10 |
| (0, 0.5] | 123 | 3 | 5 | 6 | 25 | 57 | 27 |
| (-0.5, 0] | 145 | 2 | 5 | 12 | 14 | 80 | 32 |
| (-1.0, -0.5] | 145 | 8 | 7 | 9 | 7 | 72 | 42 |
| (-1.5, -1.0] | 148 | 7 | 7 | 15 | 6 | 70 | 43 |
| (-2.0, -1.5] | 129 | 8 | 2 | 26 | 10 | 50 | 33 |
| (-2.5, -2.0] | 45 | 1 | N/A | 14 | N/A | 16 | 14 |
| (-3.0, -2.5] | 7 | N/A | N/A | 1 | 2 | 3 | 1 |
| (-3.5, -3.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Four—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 1 | N/A | N/A | N/A | N/A | 1 | N/A |
| (5.5, 6.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (5.0, 5.5] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (4.5, 5.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (4.0, 4.5] | 1 | N/A | N/A | N/A | 1 | N/A | N/A |
| (3.5, 4.0] | 5 | N/A | 1 | 2 | N/A | 2 | N/A |
| (3.0, 3.5] | 7 | 1 | 1 | 3 | 1 | 1 | N/A |
| (2.5, 3.0] | 19 | N/A | 3 | 7 | 2 | 6 | 1 |
| (2.0, 2.5] | 31 | 1 | 4 | 11 | 8 | 5 | 2 |
| (1.5, 2.0] | 53 | 2 | 3 | 8 | 23 | 15 | 2 |
| (1.0, 1.5] | 83 | 2 | 7 | 11 | 26 | 28 | 9 |
| (0.5, 1.0] | 102 | 6 | 3 | 6 | 23 | 33 | 31 |
| (0, 0.5] | 141 | 1 | 7 | 8 | 25 | 56 | 44 |
| (-0.5, 0] | 152 | 5 | 5 | 4 | 29 | 48 | 61 |
| (-1.0, -0.5] | 119 | 6 | 3 | 20 | 7 | 51 | 32 |
| (-1.5, -1.0] | 118 | 14 | 1 | 15 | 18 | 40 | 30 |
| (-2.0, -1.5] | 70 | 4 | 8 | 6 | 19 | 17 | 16 |
| (-2.5, -2.0] | 40 | 3 | 8 | 5 | 8 | 11 | 5 |
| (-3.0, -2.5] | 9 | 2 | 3 | N/A | 1 | 2 | 1 |
| (-3.5, -3.0] | 1 | N/A | N/A | N/A | 1 | N/A | N/A |
| < = -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Five—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (5.5, 6.0] | 1 | 1 | N/A | N/A | N/A | N/A | N/A |
| (5.0, 5.5] | 2 | 2 | N/A | N/A | N/A | N/A | N/A |
| (4.5, 5.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (4.0, 4.5] | 3 | 2 | N/A | N/A | N/A | N/A | 1 |
| (3.5, 4.0] | 5 | N/A | N/A | 3 | N/A | 1 | 1 |
| (3.0, 3.5] | 9 | N/A | 1 | 4 | 3 | N/A | 1 |
| (2.5, 3.0] | 22 | 4 | 2 | 8 | 3 | 4 | 1 |
| (2.0, 2.5] | 53 | 4 | N/A | 12 | 19 | 10 | 8 |
| (1.5, 2.0] | 71 | 7 | 1 | 13 | 15 | 20 | 15 |
| (1.0, 1.5] | 96 | 6 | 1 | 19 | 16 | 39 | 15 |
| (0.5, 1.0] | 123 | 9 | 2 | 10 | 12 | 48 | 42 |
| (0, 0.5] | 129 | 8 | 6 | 11 | 10 | 39 | 55 |
| (-0.5, 0] | 138 | 15 | 5 | 11 | 11 | 41 | 55 |
| (-1.0, -0.5] | 119 | 7 | 6 | 13 | 9 | 62 | 22 |
| (-1.5, -1.0] | 98 | 8 | 2 | 12 | 29 | 29 | 18 |
| (-2.0, -1.5] | 51 | 8 | 3 | 14 | 3 | 18 | 5 |
| (-2.5, -2.0] | 37 | 1 | 10 | 13 | 8 | 3 | 2 |
| (-3.0, -2.5] | 6 | N/A | 2 | 3 | N/A | 1 | N/A |
| (-3.5, -3.0] | 1 | N/A | N/A | 1 | N/A | N/A | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Six—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 1 | N/A | N/A | N/A | 1 | N/A | N/A |
| (5.5, 6.0] | 1 | N/A | N/A | 1 | N/A | N/A | N/A |
| (5.0, 5.5] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (4.5, 5.0] | 4 | N/A | N/A | 3 | 1 | N/A | N/A |
| (4.0, 4.5] | 9 | N/A | N/A | 7 | 2 | N/A | N/A |
| (3.5, 4.0] | 12 | N/A | 1 | 3 | 7 | 1 | N/A |
| (3.0, 3.5] | 21 | N/A | 1 | 12 | 6 | 2 | N/A |
| (2.5, 3.0] | 46 | 6 | 2 | 21 | 8 | 4 | 5 |
| (2.0, 2.5] | 70 | 9 | 3 | 21 | 9 | 21 | 7 |
| (1.5, 2.0] | 112 | 21 | 5 | 19 | 23 | 32 | 12 |
| (1.0, 1.5] | 125 | 4 | 3 | 23 | 30 | 38 | 27 |
| (0.5, 1.0] | 122 | 6 | 5 | 21 | 16 | 27 | 47 |
| (0, 0.5] | 104 | 7 | 3 | 11 | 15 | 39 | 29 |
| (-0.5, 0] | 117 | 7 | 2 | 14 | 15 | 43 | 36 |
| (-1.0, -0.5] | 91 | 8 | 5 | 11 | 9 | 28 | 30 |
| (-1.5, -1.0] | 67 | 11 | 1 | 12 | 11 | 9 | 23 |
| (-2.0, -1.5] | 21 | 10 | N/A | 7 | N/A | 2 | 2 |
| (-2.5, -2.0] | 14 | 10 | 1 | 2 | N/A | N/A | 1 |
| (-3.0, -2.5] | 2 | N/A | N/A | 1 | N/A | 1 | N/A |
| (-3.5, -3.0] | 1 | 1 | N/A | N/A | N/A | N/A | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Seven—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 2 | 1 | N/A | N/A | N/A | 1 | N/A |
| (5.5, 6.0] | 5 | N/A | N/A | 4 | 1 | N/A | N/A |
| (5.0, 5.5] | 4 | 1 | N/A | 3 | N/A | N/A | N/A |
| (4.5, 5.0] | 7 | N/A | N/A | 5 | N/A | 1 | 1 |
| (4.0, 4.5] | 11 | N/A | N/A | 7 | 2 | 2 | N/A |
| (3.5, 4.0] | 23 | N/A | 3 | 6 | 8 | 3 | 3 |
| (3.0, 3.5] | 26 | N/A | N/A | 10 | 8 | 6 | 2 |
| (2.5, 3.0] | 44 | 4 | 1 | 6 | 15 | 14 | 4 |
| (2.0, 2.5] | 88 | 17 | 2 | 12 | 16 | 24 | 17 |
| (1.5, 2.0] | 121 | 15 | 1 | 13 | 28 | 37 | 27 |
| (1.0, 1.5] | 130 | 5 | 2 | 5 | 17 | 44 | 57 |
| (0.5, 1.0] | 103 | 7 | 2 | 7 | 7 | 30 | 50 |
| (0, 0.5] | 99 | 8 | 3 | N/A | 9 | 36 | 43 |
| (-0.5, 0] | 107 | 16 | 1 | 3 | 7 | 44 | 36 |
| (-1.0, -0.5] | 60 | 12 | 4 | N/A | 6 | 21 | 17 |
| (-1.5, -1.0] | 54 | 11 | 4 | N/A | 8 | 19 | 12 |
| (-2.0, -1.5] | 16 | 4 | 2 | 1 | 3 | 5 | 1 |
| (-2.5, -2.0] | 4 | 1 | N/A | N/A | N/A | 2 | 1 |
| (-3.0, -2.5] | 1 | 1 | N/A | N/A | N/A | N/A | N/A |
| (-3.5, -3.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Eight—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 2 | N/A | 1 | N/A | N/A | N/A | 1 |
| (5.5, 6.0] | 1 | N/A | N/A | N/A | N/A | N/A | 1 |
| (5.0, 5.5] | 2 | N/A | N/A | 2 | N/A | N/A | N/A |
| (4.5, 5.0] | 4 | N/A | N/A | 3 | N/A | N/A | 1 |
| (4.0, 4.5] | 12 | 2 | 3 | 5 | N/A | 1 | 1 |
| (3.5, 4.0] | 28 | 7 | 2 | 12 | 2 | 4 | 1 |
| (3.0, 3.5] | 41 | 1 | 3 | 20 | 9 | 6 | 2 |
| (2.5, 3.0] | 68 | 10 | 3 | 15 | 13 | 17 | 10 |
| (2.0, 2.5] | 96 | 15 | 4 | 8 | 18 | 32 | 19 |
| (1.5, 2.0] | 134 | 17 | N/A | 8 | 26 | 48 | 35 |
| (1.0, 1.5] | 128 | 13 | 2 | 9 | 16 | 31 | 57 |
| (0.5, 1.0] | 105 | 7 | 3 | 5 | 10 | 29 | 51 |
| (0, 0.5] | 101 | 9 | 5 | 2 | 11 | 37 | 37 |
| (-0.5, 0] | 143 | 10 | 2 | 10 | 21 | 53 | 47 |
| (-1.0, -0.5] | 60 | 9 | 5 | 1 | 8 | 14 | 23 |
| (-1.5, -1.0] | 35 | 5 | 4 | 3 | 4 | 14 | 5 |
| (-2.0, -1.5] | 13 | 2 | 3 | 3 | N/A | 4 | 1 |
| (-2.5, -2.0] | 3 | N/A | N/A | N/A | N/A | 2 | 1 |
| (-3.0, -2.5] | 1 | N/A | 1 | N/A | N/A | N/A | N/A |
| (-3.5, -3.0] | 1 | N/A | N/A | N/A | N/A | 1 | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 17 | 3 | 1 | 11 | 1 | 1 | N/A |
| (5.5, 6.0] | 14 | 1 | 2 | 10 | 1 | N/A | N/A |
| (5.0, 5.5] | 22 | 3 | N/A | 12 | 1 | 5 | 1 |
| (4.5, 5.0] | 42 | 1 | 3 | 31 | 2 | 3 | 2 |
| (4.0, 4.5] | 76 | 3 | 8 | 48 | 6 | 4 | 7 |
| (3.5, 4.0] | 115 | 2 | 10 | 54 | 28 | 12 | 9 |
| (3.0, 3.5] | 186 | 9 | 7 | 62 | 59 | 36 | 13 |
| (2.5, 3.0] | 261 | 16 | 12 | 70 | 59 | 77 | 27 |
| (2.0, 2.5] | 370 | 43 | 7 | 75 | 56 | 145 | 44 |
| (1.5, 2.0] | 417 | 22 | 14 | 31 | 90 | 181 | 79 |
| (1.0, 1.5] | 323 | 11 | 4 | 23 | 75 | 135 | 75 |
| (0.5, 1.0] | 307 | 6 | 13 | 17 | 30 | 175 | 66 |
| (0, 0.5] | 233 | 7 | 8 | 19 | 27 | 118 | 54 |
| (-0.5, 0] | 186 | 8 | 4 | 13 | 22 | 90 | 49 |
| (-1.0, -0.5] | 102 | 14 | 9 | 9 | 20 | 42 | 8 |
| (-1.5, -1.0] | 29 | 5 | N/A | 5 | 8 | 7 | 4 |
| (-2.0, -1.5] | 12 | 3 | N/A | 4 | 5 | N/A | N/A |
| (-2.5, -2.0] | 1 | N/A | N/A | N/A | 1 | N/A | N/A |
| (-3.0, -2.5] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (-3.5, -3.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Three—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (5.5, 6.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (5.0, 5.5] | 1 | N/A | 1 | N/A | N/A | N/A | N/A |
| (4.5, 5.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (4.0, 4.5] | 1 | N/A | 1 | N/A | N/A | N/A | N/A |
| (3.5, 4.0] | 1 | N/A | 1 | N/A | N/A | N/A | N/A |
| (3.0, 3.5] | 5 | N/A | 3 | 2 | N/A | N/A | N/A |
| (2.5, 3.0] | 3 | N/A | N/A | 3 | N/A | N/A | N/A |
| (2.0, 2.5] | 7 | N/A | 1 | 5 | N/A | N/A | 1 |
| (1.5, 2.0] | 13 | N/A | N/A | 12 | N/A | N/A | 1 |
| (1.0, 1.5] | 29 | N/A | N/A | 26 | 2 | 1 | N/A |
| (0.5, 1.0] | 91 | N/A | 2 | 43 | 38 | 5 | 3 |
| (0, 0.5] | 161 | N/A | 9 | 61 | 35 | 37 | 19 |
| (-0.5, 0] | 209 | N/A | 13 | 55 | 62 | 40 | 39 |
| (-1.0, -0.5] | 202 | N/A | 1 | 35 | 62 | 52 | 52 |
| (-1.5, -1.0] | 187 | N/A | 5 | 14 | 47 | 61 | 60 |
| (-2.0, -1.5] | 208 | 4 | 41 | 34 | 68 | 25 | 36 |
| (-2.5, -2.0] | 101 | N/A | 23 | N/A | 25 | 38 | 15 |
| (-3.0, -2.5] | 48 | N/A | 6 | 9 | 18 | 12 | 3 |
| (-3.5, -3.0] | 15 | N/A | 3 | 4 | 8 | N/A | N/A |
| <= -3.5 | 3 | N/A | N/A | 1 | 2 | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Four—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (5.5, 6.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (5.0, 5.5] | 1 | N/A | 1 | N/A | N/A | N/A | N/A |
| (4.5, 5.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (4.0, 4.5] | 3 | N/A | 1 | 1 | N/A | 1 | N/A |
| (3.5, 4.0] | 2 | N/A | 1 | N/A | N/A | N/A | 1 |
| (3.0, 3.5] | 4 | N/A | 1 | 3 | N/A | N/A | N/A |
| (2.5, 3.0] | 8 | N/A | N/A | 8 | N/A | N/A | N/A |
| (2.0, 2.5] | 26 | 1 | 1 | 19 | 1 | N/A | 4 |
| (1.5, 2.0] | 48 | N/A | N/A | 38 | 5 | 1 | 4 |
| (1.0, 1.5] | 99 | N/A | N/A | 53 | 25 | 10 | 11 |
| (0.5, 1.0] | 197 | N/A | N/A | 112 | 27 | 29 | 29 |
| (0, 0.5] | 249 | 1 | 3 | 107 | 41 | 52 | 45 |
| (-0.5, 0] | 273 | 1 | 10 | 105 | 49 | 58 | 50 |
| (-1.0, -0.5] | 197 | N/A | 3 | 52 | 51 | 57 | 34 |
| (-1.5, -1.0] | 148 | N/A | N/A | 44 | 39 | 27 | 38 |
| (-2.0, -1.5] | 81 | N/A | N/A | 9 | 37 | 16 | 19 |
| (-2.5, -2.0] | 42 | 3 | N/A | 7 | 18 | 11 | 3 |
| (-3.0, -2.5] | 25 | 11 | 2 | 5 | 5 | N/A | 2 |
| (-3.5, -3.0] | 9 | 6 | N/A | 1 | N/A | 1 | 1 |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Five—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 1 | N/A | 1 | N/A | N/A | N/A | N/A |
| (5.5, 6.0] | 1 | N/A | 1 | N/A | N/A | N/A | N/A |
| (5.0, 5.5] | 2 | N/A | N/A | 2 | N/A | N/A | N/A |
| (4.5, 5.0] | 2 | N/A | N/A | 1 | 1 | N/A | N/A |
| (4.0, 4.5] | 3 | N/A | N/A | 3 | N/A | N/A | N/A |
| (3.5, 4.0] | 4 | N/A | N/A | 2 | N/A | N/A | 2 |
| (3.0, 3.5] | 8 | N/A | N/A | 4 | 3 | 1 | N/A |
| (2.5, 3.0] | 25 | N/A | N/A | 13 | 5 | 6 | 1 |
| (2.0, 2.5] | 65 | N/A | N/A | 33 | 18 | 7 | 7 |
| (1.5, 2.0] | 142 | N/A | 1 | 71 | 36 | 23 | 11 |
| (1.0, 1.5] | 181 | N/A | 4 | 82 | 44 | 29 | 22 |
| (0.5, 1.0] | 252 | N/A | 9 | 87 | 70 | 35 | 51 |
| (0, 0.5] | 284 | 1 | 14 | 131 | 54 | 49 | 35 |
| (-0.5, 0] | 170 | 1 | 2 | 17 | 64 | 61 | 25 |
| (-1.0, -0.5] | 107 | N/A | N/A | N/A | 30 | 50 | 27 |
| (-1.5, -1.0] | 47 | N/A | N/A | N/A | N/A | 27 | 20 |
| (-2.0, -1.5] | 31 | 2 | 2 | N/A | 4 | 14 | 9 |
| (-2.5, -2.0] | 29 | 3 | 4 | N/A | 4 | 14 | 4 |
| (-3.0, -2.5] | 19 | 4 | 4 | 1 | 3 | 7 | N/A |
| (-3.5, -3.0] | 6 | 4 | 2 | N/A | N/A | N/A | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Six—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-*v*alue** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 8 | N/A | N/A | 8 | N/A | N/A | N/A |
| (5.5, 6.0] | 4 | N/A | N/A | 4 | N/A | N/A | N/A |
| (5.0, 5.5] | 6 | N/A | N/A | 6 | N/A | N/A | N/A |
| (4.5, 5.0] | 5 | N/A | N/A | 3 | 2 | N/A | N/A |
| (4.0, 4.5] | 9 | N/A | N/A | 6 | 2 | 1 | N/A |
| (3.5, 4.0] | 18 | N/A | N/A | 11 | 6 | 1 | N/A |
| (3.0, 3.5] | 34 | N/A | N/A | 19 | 7 | 8 | N/A |
| (2.5, 3.0] | 57 | N/A | N/A | 36 | 15 | 5 | 1 |
| (2.0, 2.5] | 134 | N/A | N/A | 72 | 30 | 22 | 10 |
| (1.5, 2.0] | 185 | N/A | N/A | 99 | 47 | 17 | 22 |
| (1.0, 1.5] | 202 | N/A | N/A | 89 | 76 | 13 | 24 |
| (0.5, 1.0] | 184 | N/A | N/A | 49 | 77 | 29 | 29 |
| (0, 0.5] | 120 | N/A | N/A | 2 | 30 | 43 | 45 |
| (-0.5, 0] | 81 | N/A | N/A | 1 | 28 | 23 | 29 |
| (-1.0, -0.5] | 75 | N/A | N/A | 6 | 4 | 30 | 35 |
| (-1.5, -1.0] | 32 | N/A | N/A | 4 | 6 | 10 | 12 |
| (-2.0, -1.5] | 32 | N/A | N/A | 6 | 5 | 11 | 10 |
| (-2.5, -2.0] | 17 | N/A | N/A | N/A | 6 | 11 | N/A |
| (-3.0, -2.5] | 7 | N/A | N/A | N/A | 2 | 5 | N/A |
| (-3.5, -3.0] | 1 | N/A | N/A | 1 | N/A | N/A | N/A |
| <= -3.5 | 1 | N/A | N/A | N/A | N/A | 1 | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Seven—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 5 | N/A | N/A | 5 | N/A | N/A | N/A |
| (5.5, 6.0] | 5 | N/A | N/A | 4 | N/A | N/A | 1 |
| (5.0, 5.5] | 12 | N/A | N/A | 9 | 1 | 1 | 1 |
| (4.5, 5.0] | 9 | N/A | N/A | 6 | N/A | 1 | 2 |
| (4.0, 4.5] | 17 | N/A | N/A | 4 | 6 | 5 | 2 |
| (3.5, 4.0] | 34 | N/A | N/A | 13 | 11 | 7 | 3 |
| (3.0, 3.5] | 65 | N/A | N/A | 27 | 25 | 10 | 3 |
| (2.5, 3.0] | 151 | N/A | N/A | 93 | 29 | 18 | 11 |
| (2.0, 2.5] | 191 | N/A | N/A | 112 | 40 | 13 | 26 |
| (1.5, 2.0] | 209 | N/A | N/A | 102 | 54 | 31 | 22 |
| (1.0, 1.5] | 176 | N/A | N/A | 54 | 52 | 24 | 46 |
| (0.5, 1.0] | 92 | N/A | N/A | 17 | 9 | 29 | 37 |
| (0, 0.5] | 57 | N/A | N/A | N/A | 15 | 17 | 25 |
| (-0.5, 0] | 32 | N/A | N/A | N/A | 3 | 8 | 21 |
| (-1.0, -0.5] | 24 | N/A | N/A | N/A | N/A | 5 | 19 |
| (-1.5, -1.0] | 13 | N/A | N/A | N/A | N/A | 1 | 12 |
| (-2.0, -1.5] | 11 | N/A | N/A | N/A | N/A | N/A | 11 |
| (-2.5, -2.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (-3.0, -2.5] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (-3.5, -3.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Eight—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 17 | N/A | N/A | 17 | N/A | N/A | N/A |
| (5.5, 6.0] | 14 | N/A | N/A | 14 | N/A | N/A | N/A |
| (5.0, 5.5] | 20 | N/A | N/A | 19 | 1 | N/A | N/A |
| (4.5, 5.0] | 21 | N/A | N/A | 17 | 3 | 1 | N/A |
| (4.0, 4.5] | 40 | N/A | N/A | 14 | 19 | 6 | 1 |
| (3.5, 4.0] | 71 | N/A | N/A | 19 | 25 | 27 | N/A |
| (3.0, 3.5] | 104 | N/A | N/A | 51 | 33 | 14 | 6 |
| (2.5, 3.0] | 122 | N/A | N/A | 54 | 35 | 12 | 21 |
| (2.0, 2.5] | 146 | N/A | N/A | 58 | 29 | 21 | 38 |
| (1.5, 2.0] | 122 | N/A | N/A | 46 | 23 | 15 | 38 |
| (1.0, 1.5] | 90 | N/A | N/A | 18 | 16 | 26 | 30 |
| (0.5, 1.0] | 52 | N/A | N/A | 5 | 9 | 21 | 17 |
| (0, 0.5] | 58 | N/A | N/A | N/A | 12 | 18 | 28 |
| (-0.5, 0] | 36 | N/A | N/A | 1 | 4 | 14 | 17 |
| (-1.0, -0.5] | 37 | N/A | N/A | N/A | 7 | 16 | 14 |
| (-1.5, -1.0] | 18 | N/A | N/A | N/A | 3 | 7 | 8 |
| (-2.0, -1.5] | 12 | N/A | 2 | N/A | N/A | 5 | 5 |
| (-2.5, -2.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (-3.0, -2.5] | 1 | N/A | N/A | N/A | N/A | N/A | 1 |
| (-3.5, -3.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| <= -3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.C. Conditional Exposure by Difficulty for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 38 | N/A | N/A | 36 | 1 | N/A | 1 |
| (5.5, 6.0] | 36 | N/A | 4 | 30 | N/A | N/A | 2 |
| (5.0, 5.5] | 52 | N/A | 3 | 47 | 2 | N/A | N/A |
| (4.5, 5.0] | 112 | N/A | 5 | 100 | 3 | N/A | 4 |
| (4.0, 4.5] | 155 | N/A | 3 | 137 | 4 | 2 | 9 |
| (3.5, 4.0] | 273 | N/A | 2 | 195 | 35 | 17 | 24 |
| (3.0, 3.5] | 361 | N/A | 4 | 249 | 51 | 26 | 31 |
| (2.5, 3.0] | 398 | 1 | 4 | 254 | 83 | 33 | 23 |
| (2.0, 2.5] | 357 | N/A | 4 | 208 | 67 | 58 | 20 |
| (1.5, 2.0] | 278 | N/A | N/A | 100 | 41 | 89 | 48 |
| (1.0, 1.5] | 204 | N/A | N/A | 44 | 48 | 51 | 61 |
| (0.5, 1.0] | 136 | N/A | N/A | 6 | 19 | 49 | 62 |
| (0, 0.5] | 96 | N/A | N/A | 13 | 9 | 40 | 34 |
| (-0.5, 0] | 49 | N/A | N/A | 13 | N/A | 25 | 11 |
| (-1.0, -0.5] | 36 | N/A | N/A | 10 | N/A | 23 | 3 |
| (-1.5, -1.0] | 23 | N/A | N/A | 9 | 5 | 7 | 2 |
| (-2.0, -1.5] | 9 | N/A | N/A | 3 | 3 | 3 | N/A |
| (-2.5, -2.0] | 7 | N/A | N/A | 5 | 2 | N/A | N/A |
| (-3.0, -2.5] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (-3.5, -3.0] | 3 | N/A | N/A | 3 | N/A | N/A | N/A |
| <= -3.5 | 1 | N/A | N/A | 1 | N/A | N/A | N/A |

### Appendix 8.D: Reliability Analyses

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Three—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **4** | **Reliability** | **SEM** |
| Claim 1 | 8 | 1.00 | N/A | N/A | N/A | 0.57 | 0.74 |
| Claim 2 | 6 | 0.59 | 1.00 | N/A | N/A | 0.60 | 0.74 |
| Claim 3 | 4 | 0.47 | 0.45 | 1.00 | N/A | N/A | N/A |
| Claim 4 | 5 | 0.55 | 0.55 | 0.42 | 1.00 | 0.37 | 0.93 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Four—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **4** | **Reliability** | **SEM** |
| Claim 1 | 8 | 1.00 | N/A | N/A | N/A | 0.51 | 0.82 |
| Claim 2 | 6 | 0.57 | 1.00 | N/A | N/A | 0.58 | 0.80 |
| Claim 3 | 4 | 0.44 | 0.44 | 1.00 | N/A | N/A | N/A |
| Claim 4 | 5 | 0.52 | 0.53 | 0.40 | 1.00 | 0.30 | 1.04 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Five—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **4** | **Reliability** | **SEM** |
| Claim 1 | 8 | 1.00 | N/A | N/A | N/A | 0.52 | 0.85 |
| Claim 2 | 6 | 0.59 | 1.00 | N/A | N/A | 0.67 | 0.78 |
| Claim 3 | 4 | 0.48 | 0.46 | 1.00 | N/A | N/A | N/A |
| Claim 4 | 5 | 0.56 | 0.59 | 0.44 | 1.00 | 0.46 | 0.89 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Six—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **4** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | N/A | 0.61 | 0.79 |
| Claim 2 | 6 | 0.63 | 1.00 | N/A | N/A | 0.68 | 0.71 |
| Claim 3 | 4 | 0.52 | 0.50 | 1.00 | N/A | N/A | N/A |
| Claim 4 | 5 | 0.57 | 0.59 | 0.45 | 1.00 | 0.40 | 1.03 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Seven—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **4** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | N/A | 0.58 | 0.86 |
| Claim 2 | 6 | 0.62 | 1.00 | N/A | N/A | 0.67 | 0.75 |
| Claim 3 | 4 | 0.48 | 0.48 | 1.00 | N/A | N/A | N/A |
| Claim 4 | 5 | 0.59 | 0.63 | 0.45 | 1.00 | 0.40 | 1.01 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Eight—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **4** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | N/A | 0.66 | 0.78 |
| Claim 2 | 6 | 0.65 | 1.00 | N/A | N/A | 0.68 | 0.78 |
| Claim 3 | 4 | 0.52 | 0.49 | 1.00 | N/A | N/A | N/A |
| Claim 4 | 5 | 0.62 | 0.62 | 0.46 | 1.00 | 0.43 | 1.05 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **4** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | N/A | 0.62 | 0.86 |
| Claim 2 | 6 | 0.67 | 1.00 | N/A | N/A | 0.71 | 0.87 |
| Claim 3 | 4 | 0.51 | 0.50 | 1.00 | N/A | N/A | N/A |
| Claim 4 | 5 | 0.61 | 0.67 | 0.46 | 1.00 | 0.42 | 1.14 |

Table 8.D Reliabilities of Claims and Intercorrelations for Grade Three—Mathematics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | 0.78 | 0.54 |
| Claim 2 | 5–8 | 0.73 | 1.00 | N/A | 0.68 | 0.60 |
| Claim 3 | 4–6 | 0.68 | 0.67 | 1.00 | 0.52 | 0.77 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Four—Mathematics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | 0.77 | 0.56 |
| Claim 2 | 5–8 | 0.71 | 1.00 | N/A | 0.65 | 0.65 |
| Claim 3 | 4–6 | 0.66 | 0.64 | 1.00 | 0.53 | 0.78 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Five—Mathematics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | 0.74 | 0.65 |
| Claim 2 | 5–8 | 0.67 | 1.00 | N/A | 0.58 | 0.73 |
| Claim 3 | 4–6 | 0.62 | 0.60 | 1.00 | 0.40 | 0.93 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Six—Mathematics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **Reliability** | **SEM** |
| Claim 1 | 9–10 | 1.00 | N/A | N/A | 0.76 | 0.69 |
| Claim 2 | 5–8 | 0.71 | 1.00 | N/A | 0.55 | 0.79 |
| Claim 3 | 4–6 | 0.66 | 0.61 | 1.00 | 0.40 | 0.92 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Seven—Mathematics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | 0.72 | 0.77 |
| Claim 2 | 5–8 | 0.67 | 1.00 | N/A | 0.49 | 0.88 |
| Claim 3 | 4–6 | 0.60 | 0.56 | 1.00 | 0.32 | 1.16 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Eight—Mathematics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **Reliability** | **SEM** |
| Claim 1 | 10 | 1.00 | N/A | N/A | 0.71 | 0.87 |
| Claim 2 | 5–8 | 0.65 | 1.00 | N/A | 0.57 | 0.96 |
| Claim 3 | 4–6 | 0.65 | 0.59 | 1.00 | 0.34 | 1.25 |

Table 8.D. Reliabilities of Claims and Intercorrelations for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **1** | **2** | **3** | **Reliability** | **SEM** |
| Claim 1 | 11 | 1.00 | N/A | N/A | 0.74 | 0.84 |
| Claim 2 | 5–8 | 0.62 | 1.00 | N/A | 0.47 | 1.15 |
| Claim 3 | 4–6 | 0.63 | 0.60 | 1.00 | 0.34 | 1.23 |

Table 8.D. Reliabilities and SEMs by Gender

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Male N** | **Male Reliability** | **Male SEM** | **Female N** | **Female Reliability** | **Female SEM** |
| ELA 3 | 40,144 | 0.87 | 0.41 | 39,103 | 0.87 | 0.40 |
| ELA 4 | 41,426 | 0.86 | 0.44 | 40,179 | 0.86 | 0.43 |
| ELA 5 | 42,201 | 0.88 | 0.42 | 40,846 | 0.88 | 0.42 |
| ELA 6 | 44,328 | 0.88 | 0.41 | 42,141 | 0.88 | 0.41 |
| ELA 7 | 48,765 | 0.88 | 0.43 | 46,984 | 0.87 | 0.42 |
| ELA 8 | 49,540 | 0.88 | 0.43 | 47,333 | 0.88 | 0.42 |
| ELA 11 | 100,321 | 0.89 | 0.48 | 103,717 | 0.88 | 0.47 |
| Mathematics 3 | 42,347 | 0.90 | 0.35 | 41,396 | 0.90 | 0.35 |
| Mathematics 4 | 43,803 | 0.90 | 0.37 | 42,860 | 0.89 | 0.37 |
| Mathematics 5 | 44,653 | 0.88 | 0.43 | 43,536 | 0.87 | 0.43 |
| Mathematics 6 | 43,547 | 0.88 | 0.46 | 41,637 | 0.88 | 0.46 |
| Mathematics 7 | 48,200 | 0.86 | 0.54 | 46,328 | 0.85 | 0.53 |
| Mathematics 8 | 48,371 | 0.86 | 0.58 | 46,331 | 0.86 | 0.57 |
| Mathematics 11 | 95,517 | 0.86 | 0.61 | 98,894 | 0.85 | 0.59 |

Table 8.D. Reliabilities and SEMs by Economic Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **No Economic Disadvantage N** | **No Economic Disadvantage Reliability** | **No Economic Disadvantage SEM** | **Economic Disadvantage N** | **Economic Disadvantage Reliability** | **Economic Disadvantage SEM** |
| ELA 3 | 36,312 | 0.86 | 0.39 | 42,939 | 0.83 | 0.42 |
| ELA 4 | 37,395 | 0.85 | 0.42 | 44,217 | 0.82 | 0.45 |
| ELA 5 | 37,595 | 0.86 | 0.42 | 45,454 | 0.86 | 0.42 |
| ELA 6 | 38,402 | 0.87 | 0.41 | 48,084 | 0.86 | 0.41 |
| ELA 7 | 42,854 | 0.86 | 0.42 | 52,917 | 0.86 | 0.43 |
| ELA 8 | 43,440 | 0.87 | 0.42 | 53,466 | 0.87 | 0.43 |
| ELA 11 | 87,255 | 0.88 | 0.47 | 116,868 | 0.87 | 0.48 |
| Mathematics 3 | 38,674 | 0.90 | 0.32 | 45,073 | 0.86 | 0.37 |
| Mathematics 4 | 39,817 | 0.90 | 0.34 | 46,853 | 0.85 | 0.39 |
| Mathematics 5 | 40,114 | 0.89 | 0.39 | 48,078 | 0.82 | 0.46 |
| Mathematics 6 | 38,128 | 0.89 | 0.42 | 47,073 | 0.83 | 0.49 |
| Mathematics 7 | 42,344 | 0.88 | 0.48 | 52,204 | 0.80 | 0.57 |
| Mathematics 8 | 42,311 | 0.88 | 0.52 | 52,422 | 0.79 | 0.61 |
| Mathematics 11 | 82,839 | 0.89 | 0.54 | 111,657 | 0.80 | 0.64 |

Table 8.D. Reliabilities and SEMs by Special Education Services Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **No Special Education Services N** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services N** | **With Special Education Services Reliability** | **With Special Education Services SEM** |
| ELA 3 | 70,625 | 0.87 | 0.40 | 8,626 | 0.83 | 0.44 |
| ELA 4 | 72,262 | 0.85 | 0.43 | 9,350 | 0.82 | 0.48 |
| ELA 5 | 73,577 | 0.87 | 0.42 | 9,472 | 0.84 | 0.44 |
| ELA 6 | 76,514 | 0.87 | 0.41 | 9,972 | 0.82 | 0.45 |
| ELA 7 | 85,189 | 0.87 | 0.42 | 10,582 | 0.81 | 0.48 |
| ELA 8 | 86,582 | 0.88 | 0.42 | 10,324 | 0.80 | 0.46 |
| ELA 11 | 187,217 | 0.88 | 0.47 | 16,906 | 0.80 | 0.52 |
| Mathematics 3 | 74,913 | 0.90 | 0.34 | 8,834 | 0.88 | 0.39 |
| Mathematics 4 | 76,891 | 0.89 | 0.36 | 9,779 | 0.86 | 0.43 |
| Mathematics 5 | 78,326 | 0.88 | 0.42 | 9,866 | 0.81 | 0.51 |
| Mathematics 6 | 75,842 | 0.88 | 0.45 | 9,359 | 0.79 | 0.56 |
| Mathematics 7 | 84,354 | 0.86 | 0.51 | 10,194 | 0.70 | 0.68 |
| Mathematics 8 | 84,832 | 0.86 | 0.56 | 9,901 | 0.66 | 0.70 |
| Mathematics 11 | 178,721 | 0.86 | 0.58 | 15,775 | 0.57 | 0.81 |

Table 8.D. Reliabilities and SEMs by Accommodations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **No Accommodations N** | **No Accommodations Reliability** | **No Accommodations SEM** | **Accommodations N** | **Accommodations Reliability** | **Accommodations SEM** |
| ELA 3 | 5,765 | 0.86 | 0.42 | 3,704 | 0.77 | 0.46 |
| ELA 4 | 5,611 | 0.85 | 0.45 | 4,949 | 0.74 | 0.49 |
| ELA 5 | 5,675 | 0.87 | 0.43 | 5,348 | 0.78 | 0.45 |
| ELA 6 | 5,736 | 0.87 | 0.43 | 5,926 | 0.74 | 0.46 |
| ELA 7 | 6,108 | 0.87 | 0.45 | 6,537 | 0.75 | 0.48 |
| ELA 8 | 6,559 | 0.87 | 0.44 | 6,228 | 0.75 | 0.47 |
| ELA 11 | 17,891 | 0.87 | 0.51 | 4,228 | 0.76 | 0.53 |
| Mathematics 3 | 7,870 | 0.89 | 0.38 | 1,855 | 0.83 | 0.42 |
| Mathematics 4 | 7,474 | 0.88 | 0.41 | 3,582 | 0.77 | 0.46 |
| Mathematics 5 | 6,896 | 0.86 | 0.47 | 4,598 | 0.69 | 0.54 |
| Mathematics 6 | 6,026 | 0.86 | 0.51 | 5,036 | 0.68 | 0.59 |
| Mathematics 7 | 6,320 | 0.82 | 0.60 | 5,961 | 0.54 | 0.71 |
| Mathematics 8 | 6,389 | 0.82 | 0.63 | 5,961 | 0.51 | 0.71 |
| Mathematics 11 | 16,458 | 0.76 | 0.74 | 4,291 | 0.39 | 0.83 |

**Notes:**

* “No Accommodations” indicates students who had an individualized education program (IEP) or Section 504 plan but were not assigned any accommodations in the test.
* “Accommodations” indicates students who had an IEP or Section 504 plan and were assigned accommodations.
* Refer to subsection *2.4.2 Universal Tools, Designated Supports, and Accommodations* in *Chapter 2: Overview of CAASPP Smarter Balanced Processes* for accommodation conditions.

Table 8.D. Reliabilities and SEMs by English Language Fluency

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **English Only N** | **English Only Reliability** | **English Only SEM** | **Initial Fluent English Proficient (IFEP) N** | **IFEP Reliability** | **IFEP SEM** |
| ELA 3 | 51,399 | 0.87 | 0.40 | 2,805 | 0.86 | 0.39 |
| ELA 4 | 52,520 | 0.85 | 0.43 | 2,754 | 0.83 | 0.42 |
| ELA 5 | 52,093 | 0.87 | 0.42 | 2,978 | 0.84 | 0.43 |
| ELA 6 | 53,005 | 0.88 | 0.41 | 3,195 | 0.85 | 0.41 |
| ELA 7 | 56,793 | 0.87 | 0.42 | 3,769 | 0.85 | 0.43 |
| ELA 8 | 56,668 | 0.88 | 0.42 | 3,925 | 0.86 | 0.43 |
| ELA 11 | 104,222 | 0.88 | 0.47 | 11,352 | 0.87 | 0.48 |
| Mathematics 3 | 54,669 | 0.90 | 0.34 | 2,964 | 0.91 | 0.33 |
| Mathematics 4 | 55,958 | 0.90 | 0.35 | 2,864 | 0.91 | 0.33 |
| Mathematics 5 | 55,487 | 0.88 | 0.42 | 3,098 | 0.90 | 0.38 |
| Mathematics 6 | 52,401 | 0.88 | 0.45 | 3,057 | 0.90 | 0.40 |
| Mathematics 7 | 56,265 | 0.86 | 0.51 | 3,587 | 0.90 | 0.45 |
| Mathematics 8 | 55,511 | 0.86 | 0.56 | 3,662 | 0.90 | 0.49 |
| Mathematics 11 | 99,058 | 0.86 | 0.58 | 10,753 | 0.90 | 0.51 |

Table 8.D.19 Reliabilities and SEMs by English Language Fluency (Continued)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **English Learner (EL) N** | **EL Reliability** | **EL SEM** | **Reclassified Fluent English Proficient (RFEP) N** | **RFEP Reliability** | **RFEP SEM** | **Adult English Learner (ADEL) N** | **ADEL Reliability** | **ADEL SEM** |
| ELA 3 | 19,666 | 0.79 | 0.44 | 5,328 | 0.84 | 0.39 | 0 | N/A | N/A |
| ELA 4 | 17,457 | 0.76 | 0.47 | 8,832 | 0.81 | 0.41 | 0 | N/A | N/A |
| ELA 5 | 15,188 | 0.78 | 0.43 | 12,740 | 0.83 | 0.41 | 0 | N/A | N/A |
| ELA 6 | 15,140 | 0.77 | 0.43 | 15,108 | 0.84 | 0.40 | 0 | N/A | N/A |
| ELA 7 | 14,356 | 0.76 | 0.47 | 20,807 | 0.84 | 0.41 | 0 | N/A | N/A |
| ELA 8 | 12,627 | 0.74 | 0.46 | 23,646 | 0.85 | 0.42 | 0 | N/A | N/A |
| ELA 11 | 16,746 | 0.73 | 0.52 | 71,721 | 0.87 | 0.47 | 37 | 0.65 | 0.52 |
| Mathematics 3 | 20,239 | 0.84 | 0.38 | 5,822 | 0.89 | 0.32 | 0 | N/A | N/A |
| Mathematics 4 | 18,160 | 0.80 | 0.42 | 9,636 | 0.89 | 0.34 | 0 | N/A | N/A |
| Mathematics 5 | 15,687 | 0.72 | 0.50 | 13,866 | 0.86 | 0.40 | 0 | N/A | N/A |
| Mathematics 6 | 14,693 | 0.73 | 0.55 | 15,011 | 0.86 | 0.43 | 0 | N/A | N/A |
| Mathematics 7 | 14,119 | 0.62 | 0.66 | 20,532 | 0.84 | 0.49 | 0 | N/A | N/A |
| Mathematics 8 | 12,328 | 0.58 | 0.69 | 23,190 | 0.84 | 0.56 | 0 | N/A | N/A |
| Mathematics 11 | 15,986 | 0.58 | 0.78 | 68,621 | 0.84 | 0.59 | 34 | N/A | N/A |

Table 8.D. Reliabilities and SEMs by Primary Ethnicity

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **American Indian or Alaska Native N** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian N** | **Asian Reliability** | **Asian SEM** |
| ELA 3 | 568 | 0.81 | 0.43 | 7,547 | 0.88 | 0.40 |
| ELA 4 | 593 | 0.82 | 0.45 | 7,488 | 0.86 | 0.43 |
| ELA 5 | 643 | 0.87 | 0.42 | 7,687 | 0.87 | 0.43 |
| ELA 6 | 597 | 0.85 | 0.41 | 7,797 | 0.87 | 0.42 |
| ELA 7 | 659 | 0.86 | 0.44 | 8,977 | 0.86 | 0.43 |
| ELA 8 | 689 | 0.87 | 0.43 | 8,996 | 0.87 | 0.43 |
| ELA 11 | 998 | 0.87 | 0.48 | 22,577 | 0.87 | 0.48 |
| Mathematics 3 | 561 | 0.87 | 0.37 | 7,918 | 0.91 | 0.33 |
| Mathematics 4 | 583 | 0.85 | 0.39 | 7,827 | 0.91 | 0.34 |
| Mathematics 5 | 652 | 0.83 | 0.46 | 8,029 | 0.91 | 0.38 |
| Mathematics 6 | 588 | 0.82 | 0.48 | 7,431 | 0.91 | 0.41 |
| Mathematics 7 | 642 | 0.80 | 0.57 | 8,437 | 0.90 | 0.44 |
| Mathematics 8 | 645 | 0.81 | 0.60 | 8,302 | 0.91 | 0.49 |
| Mathematics 11 | 918 | 0.78 | 0.67 | 21,272 | 0.91 | 0.46 |

Table 8.D.20 Reliabilities and SEMs by Primary Ethnicity (Continued One)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Native Hawaiian or Other Pacific Islander N** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino N** | **Filipino Reliability** | **Filipino SEM** |
| ELA 3 | 333 | 0.85 | 0.42 | 1,312 | 0.85 | 0.39 |
| ELA 4 | 347 | 0.84 | 0.43 | 1,406 | 0.84 | 0.42 |
| ELA 5 | 389 | 0.87 | 0.43 | 1,457 | 0.85 | 0.42 |
| ELA 6 | 451 | 0.86 | 0.40 | 1,629 | 0.86 | 0.41 |
| ELA 7 | 489 | 0.86 | 0.43 | 2,155 | 0.84 | 0.42 |
| ELA 8 | 488 | 0.86 | 0.43 | 2,230 | 0.85 | 0.42 |
| ELA 11 | 844 | 0.87 | 0.47 | 5,877 | 0.85 | 0.47 |
| Mathematics 3 | 369 | 0.87 | 0.36 | 1,431 | 0.89 | 0.32 |
| Mathematics 4 | 395 | 0.87 | 0.37 | 1,547 | 0.88 | 0.33 |
| Mathematics 5 | 439 | 0.84 | 0.43 | 1,599 | 0.87 | 0.38 |
| Mathematics 6 | 443 | 0.84 | 0.46 | 1,594 | 0.88 | 0.41 |
| Mathematics 7 | 487 | 0.81 | 0.55 | 2,129 | 0.87 | 0.46 |
| Mathematics 8 | 464 | 0.80 | 0.58 | 2,198 | 0.87 | 0.51 |
| Mathematics 11 | 794 | 0.83 | 0.60 | 5,665 | 0.88 | 0.50 |

Table 8.D.20 Reliabilities and SEMs by Primary Ethnicity (Continued Two)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Hispanic or Latino N** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American N** | **Black or African American Reliability** | **Black or African American SEM** | **White N** | **White Reliability** | **White SEM** |
| ELA 3 | 38,597 | 0.83 | 0.42 | 3,042 | 0.84 | 0.42 | 22,352 | 0.86 | 0.39 |
| ELA 4 | 39,721 | 0.83 | 0.45 | 3,138 | 0.83 | 0.45 | 23,520 | 0.84 | 0.42 |
| ELA 5 | 40,837 | 0.86 | 0.42 | 3,055 | 0.87 | 0.43 | 23,748 | 0.86 | 0.42 |
| ELA 6 | 43,332 | 0.86 | 0.41 | 3,817 | 0.87 | 0.42 | 23,539 | 0.87 | 0.40 |
| ELA 7 | 48,798 | 0.86 | 0.43 | 4,044 | 0.87 | 0.44 | 25,269 | 0.86 | 0.42 |
| ELA 8 | 49,399 | 0.87 | 0.43 | 4,250 | 0.87 | 0.43 | 25,683 | 0.87 | 0.42 |
| ELA 11 | 111,694 | 0.87 | 0.47 | 8,137 | 0.87 | 0.49 | 45,985 | 0.88 | 0.47 |
| Mathematics 3 | 40,959 | 0.86 | 0.37 | 3,440 | 0.87 | 0.37 | 23,244 | 0.90 | 0.33 |
| Mathematics 4 | 42,433 | 0.85 | 0.39 | 3,646 | 0.85 | 0.40 | 24,500 | 0.89 | 0.34 |
| Mathematics 5 | 43,631 | 0.82 | 0.46 | 3,571 | 0.81 | 0.47 | 24,676 | 0.88 | 0.40 |
| Mathematics 6 | 42,610 | 0.83 | 0.49 | 3,672 | 0.83 | 0.50 | 23,640 | 0.88 | 0.43 |
| Mathematics 7 | 48,354 | 0.80 | 0.57 | 3,842 | 0.79 | 0.58 | 25,317 | 0.86 | 0.49 |
| Mathematics 8 | 48,542 | 0.79 | 0.61 | 3,999 | 0.78 | 0.62 | 25,525 | 0.87 | 0.53 |
| Mathematics 11 | 106,684 | 0.78 | 0.64 | 7,756 | 0.77 | 0.68 | 43,850 | 0.87 | 0.55 |

Table 8.D. Reliabilities and SEMs by Migrant Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Migrant N** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant N** | **Not Migrant Reliability** | **Not Migrant SEM** |
| ELA 3 | 722 | 0.77 | 0.45 | 78,529 | 0.87 | 0.41 |
| ELA 4 | 767 | 0.78 | 0.47 | 80,845 | 0.86 | 0.44 |
| ELA 5 | 783 | 0.84 | 0.44 | 82,266 | 0.88 | 0.42 |
| ELA 6 | 699 | 0.84 | 0.42 | 85,787 | 0.88 | 0.41 |
| ELA 7 | 702 | 0.86 | 0.45 | 95,069 | 0.88 | 0.43 |
| ELA 8 | 769 | 0.86 | 0.44 | 96,137 | 0.88 | 0.43 |
| ELA 11 | 1,361 | 0.87 | 0.49 | 202,762 | 0.89 | 0.48 |
| Mathematics 3 | 710 | 0.83 | 0.40 | 83,037 | 0.90 | 0.35 |
| Mathematics 4 | 777 | 0.79 | 0.42 | 85,893 | 0.90 | 0.37 |
| Mathematics 5 | 808 | 0.77 | 0.49 | 87,384 | 0.88 | 0.43 |
| Mathematics 6 | 677 | 0.79 | 0.51 | 84,524 | 0.88 | 0.46 |
| Mathematics 7 | 697 | 0.76 | 0.60 | 93,851 | 0.86 | 0.53 |
| Mathematics 8 | 770 | 0.73 | 0.65 | 93,963 | 0.86 | 0.57 |
| Mathematics 11 | 1,253 | 0.72 | 0.68 | 193,243 | 0.86 | 0.60 |

Table 8.D. Reliabilities and SEMs by Military Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Military N** | **Military Reliability** | **Military SEM** | **Non-Military N** | **Non-Military Reliability** | **Non-Military SEM** |
| ELA 3 | 964 | 0.86 | 0.40 | 78,287 | 0.87 | 0.41 |
| ELA 4 | 1,102 | 0.84 | 0.42 | 80,510 | 0.86 | 0.44 |
| ELA 5 | 1,024 | 0.86 | 0.42 | 82,025 | 0.88 | 0.42 |
| ELA 6 | 827 | 0.87 | 0.41 | 85,659 | 0.88 | 0.41 |
| ELA 7 | 1,055 | 0.87 | 0.42 | 94,716 | 0.88 | 0.43 |
| ELA 8 | 1,094 | 0.87 | 0.42 | 95,812 | 0.88 | 0.43 |
| ELA 11 | 2,669 | 0.88 | 0.47 | 201,454 | 0.89 | 0.48 |
| Mathematics 3 | 959 | 0.89 | 0.33 | 82,788 | 0.90 | 0.35 |
| Mathematics 4 | 1,099 | 0.88 | 0.34 | 85,571 | 0.90 | 0.37 |
| Mathematics 5 | 1,029 | 0.87 | 0.41 | 87,163 | 0.88 | 0.43 |
| Mathematics 6 | 822 | 0.87 | 0.44 | 84,379 | 0.88 | 0.46 |
| Mathematics 7 | 1,011 | 0.85 | 0.50 | 93,537 | 0.86 | 0.53 |
| Mathematics 8 | 1,038 | 0.84 | 0.55 | 93,695 | 0.86 | 0.57 |
| Mathematics 11 | 2,536 | 0.87 | 0.57 | 191,960 | 0.86 | 0.60 |

Table 8.D. Reliabilities and SEMs by Homeless Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Homeless N** | **Homeless Reliability** | **Homeless SEM** | **Non-Homeless N** | **Non-Homeless Reliability** | **Non-Homeless SEM** |
| ELA 3 | 1,669 | 0.82 | 0.43 | 77,582 | 0.87 | 0.41 |
| ELA 4 | 1,783 | 0.80 | 0.47 | 79,829 | 0.86 | 0.44 |
| ELA 5 | 1,877 | 0.85 | 0.43 | 81,172 | 0.88 | 0.42 |
| ELA 6 | 2,078 | 0.85 | 0.42 | 84,408 | 0.88 | 0.41 |
| ELA 7 | 2,188 | 0.86 | 0.44 | 93,583 | 0.88 | 0.43 |
| ELA 8 | 2,363 | 0.86 | 0.44 | 94,543 | 0.88 | 0.43 |
| ELA 11 | 4,878 | 0.87 | 0.49 | 199,245 | 0.88 | 0.48 |
| Mathematics 3 | 2,065 | 0.86 | 0.38 | 81,682 | 0.90 | 0.35 |
| Mathematics 4 | 2,219 | 0.84 | 0.41 | 84,451 | 0.90 | 0.37 |
| Mathematics 5 | 2,263 | 0.80 | 0.48 | 85,929 | 0.88 | 0.43 |
| Mathematics 6 | 2,032 | 0.82 | 0.51 | 83,169 | 0.88 | 0.46 |
| Mathematics 7 | 2,187 | 0.77 | 0.60 | 92,361 | 0.86 | 0.53 |
| Mathematics 8 | 2,323 | 0.75 | 0.63 | 92,410 | 0.86 | 0.57 |
| Mathematics 11 | 4,641 | 0.76 | 0.68 | 189,855 | 0.86 | 0.60 |

Table 8.D. Reliabilities and SEMs by Primary Ethnicity for Not Economically Disadvantaged

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **American Indian or Alaska Native N** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian N** | **Asian Reliability** | **Asian SEM** |
| ELA 3 | 166 | 0.84 | 0.41 | 5,201 | 0.85 | 0.39 |
| ELA 4 | 160 | 0.87 | 0.44 | 5,171 | 0.82 | 0.42 |
| ELA 5 | 184 | 0.88 | 0.41 | 5,181 | 0.83 | 0.44 |
| ELA 6 | 189 | 0.87 | 0.41 | 5,136 | 0.83 | 0.42 |
| ELA 7 | 225 | 0.85 | 0.42 | 6,027 | 0.82 | 0.43 |
| ELA 8 | 242 | 0.88 | 0.43 | 5,992 | 0.83 | 0.44 |
| ELA 11 | 435 | 0.88 | 0.48 | 14,013 | 0.84 | 0.49 |
| Mathematics 3 | 168 | 0.89 | 0.35 | 5,386 | 0.89 | 0.32 |
| Mathematics 4 | 160 | 0.88 | 0.36 | 5,335 | 0.89 | 0.33 |
| Mathematics 5 | 189 | 0.86 | 0.43 | 5,367 | 0.89 | 0.36 |
| Mathematics 6 | 193 | 0.84 | 0.45 | 4,840 | 0.89 | 0.40 |
| Mathematics 7 | 217 | 0.82 | 0.54 | 5,603 | 0.89 | 0.42 |
| Mathematics 8 | 224 | 0.85 | 0.57 | 5,413 | 0.90 | 0.46 |
| Mathematics 11 | 405 | 0.82 | 0.63 | 13,027 | 0.91 | 0.44 |

Table 8.D.24 Reliabilities and SEMs by Primary Ethnicity for Not Economically Disadvantaged (Continued One)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Native Hawaiian or Other Pacific Islander N** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino N** | **Filipino Reliability** | **Filipino SEM** |
| ELA 3 | 133 | 0.86 | 0.40 | 948 | 0.85 | 0.39 |
| ELA 4 | 150 | 0.86 | 0.43 | 968 | 0.83 | 0.42 |
| ELA 5 | 164 | 0.86 | 0.42 | 1,040 | 0.84 | 0.42 |
| ELA 6 | 176 | 0.84 | 0.40 | 1,097 | 0.85 | 0.41 |
| ELA 7 | 215 | 0.87 | 0.42 | 1,452 | 0.83 | 0.42 |
| ELA 8 | 220 | 0.86 | 0.42 | 1,546 | 0.84 | 0.42 |
| ELA 11 | 391 | 0.87 | 0.47 | 3,900 | 0.84 | 0.47 |
| Mathematics 3 | 144 | 0.89 | 0.34 | 1,020 | 0.89 | 0.31 |
| Mathematics 4 | 163 | 0.89 | 0.36 | 1,051 | 0.88 | 0.32 |
| Mathematics 5 | 183 | 0.85 | 0.40 | 1,127 | 0.87 | 0.38 |
| Mathematics 6 | 169 | 0.85 | 0.43 | 1,081 | 0.88 | 0.41 |
| Mathematics 7 | 206 | 0.84 | 0.51 | 1,432 | 0.87 | 0.44 |
| Mathematics 8 | 213 | 0.83 | 0.54 | 1,528 | 0.87 | 0.50 |
| Mathematics 11 | 371 | 0.86 | 0.56 | 3,769 | 0.88 | 0.48 |

Table 8.D.24 Reliabilities and SEMs by Primary Ethnicity for Not Economically Disadvantaged (Continued Two)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Hispanic or Latino N** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American N** | **Black or African American Reliability** | **Black or African American SEM** | **White N** | **White Reliability** | **White SEM** |
| ELA 3 | 10,098 | 0.86 | 0.40 | 891 | 0.86 | 0.40 | 15,307 | 0.85 | 0.39 |
| ELA 4 | 10,271 | 0.84 | 0.43 | 979 | 0.84 | 0.43 | 16,067 | 0.83 | 0.42 |
| ELA 5 | 10,290 | 0.86 | 0.42 | 959 | 0.86 | 0.42 | 16,325 | 0.84 | 0.42 |
| ELA 6 | 10,783 | 0.87 | 0.40 | 1,173 | 0.87 | 0.41 | 16,375 | 0.85 | 0.40 |
| ELA 7 | 12,451 | 0.86 | 0.42 | 1,333 | 0.87 | 0.43 | 17,619 | 0.85 | 0.41 |
| ELA 8 | 12,553 | 0.87 | 0.42 | 1,487 | 0.87 | 0.42 | 17,976 | 0.86 | 0.42 |
| ELA 11 | 27,052 | 0.88 | 0.47 | 2,866 | 0.88 | 0.48 | 33,169 | 0.87 | 0.47 |
| Mathematics 3 | 11,063 | 0.89 | 0.34 | 1,010 | 0.88 | 0.34 | 16,082 | 0.89 | 0.32 |
| Mathematics 4 | 11,203 | 0.88 | 0.36 | 1,120 | 0.87 | 0.36 | 16,921 | 0.89 | 0.33 |
| Mathematics 5 | 11,299 | 0.85 | 0.42 | 1,097 | 0.85 | 0.43 | 17,131 | 0.88 | 0.38 |
| Mathematics 6 | 10,715 | 0.86 | 0.45 | 1,140 | 0.84 | 0.47 | 16,569 | 0.88 | 0.41 |
| Mathematics 7 | 12,365 | 0.83 | 0.52 | 1,275 | 0.83 | 0.53 | 17,750 | 0.87 | 0.46 |
| Mathematics 8 | 12,258 | 0.83 | 0.57 | 1,412 | 0.82 | 0.58 | 17,931 | 0.87 | 0.51 |
| Mathematics 11 | 25,779 | 0.83 | 0.60 | 2,726 | 0.82 | 0.62 | 31,654 | 0.88 | 0.53 |

Table 8.D. Reliabilities and SEMs by Primary Ethnicity for Economically Disadvantaged

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **American Indian or Alaska Native N** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian N** | **Asian Reliability** | **Asian SEM** |
| ELA 3 | 402 | 0.78 | 0.43 | 2,346 | 0.86 | 0.41 |
| ELA 4 | 433 | 0.79 | 0.46 | 2,317 | 0.84 | 0.43 |
| ELA 5 | 459 | 0.85 | 0.42 | 2,506 | 0.88 | 0.42 |
| ELA 6 | 408 | 0.83 | 0.42 | 2,661 | 0.88 | 0.41 |
| ELA 7 | 434 | 0.85 | 0.45 | 2,950 | 0.88 | 0.43 |
| ELA 8 | 447 | 0.84 | 0.43 | 3,004 | 0.88 | 0.43 |
| ELA 11 | 563 | 0.86 | 0.49 | 8,564 | 0.88 | 0.48 |
| Mathematics 3 | 393 | 0.84 | 0.38 | 2,532 | 0.90 | 0.34 |
| Mathematics 4 | 423 | 0.82 | 0.40 | 2,492 | 0.89 | 0.36 |
| Mathematics 5 | 463 | 0.80 | 0.48 | 2,662 | 0.88 | 0.42 |
| Mathematics 6 | 395 | 0.79 | 0.50 | 2,591 | 0.89 | 0.44 |
| Mathematics 7 | 425 | 0.77 | 0.58 | 2,834 | 0.88 | 0.49 |
| Mathematics 8 | 421 | 0.75 | 0.62 | 2,889 | 0.89 | 0.54 |
| Mathematics 11 | 513 | 0.73 | 0.70 | 8,245 | 0.89 | 0.51 |

Table 8.D.25 Reliabilities and SEMs by Primary Ethnicity for Economically Disadvantaged (Continued One)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Native Hawaiian or Other Pacific Islander N** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino N** | **Filipino Reliability** | **Filipino SEM** |
| ELA 3 | 200 | 0.83 | 0.43 | 364 | 0.85 | 0.39 |
| ELA 4 | 197 | 0.81 | 0.43 | 438 | 0.84 | 0.43 |
| ELA 5 | 225 | 0.86 | 0.43 | 417 | 0.86 | 0.42 |
| ELA 6 | 275 | 0.86 | 0.40 | 532 | 0.87 | 0.40 |
| ELA 7 | 274 | 0.85 | 0.44 | 703 | 0.85 | 0.42 |
| ELA 8 | 268 | 0.85 | 0.43 | 684 | 0.86 | 0.42 |
| ELA 11 | 453 | 0.87 | 0.48 | 1,977 | 0.86 | 0.46 |
| Mathematics 3 | 225 | 0.86 | 0.37 | 411 | 0.88 | 0.33 |
| Mathematics 4 | 232 | 0.85 | 0.38 | 496 | 0.88 | 0.34 |
| Mathematics 5 | 256 | 0.79 | 0.46 | 472 | 0.85 | 0.40 |
| Mathematics 6 | 274 | 0.83 | 0.48 | 513 | 0.86 | 0.43 |
| Mathematics 7 | 281 | 0.77 | 0.58 | 697 | 0.85 | 0.48 |
| Mathematics 8 | 251 | 0.76 | 0.61 | 670 | 0.85 | 0.53 |
| Mathematics 11 | 423 | 0.77 | 0.63 | 1,896 | 0.86 | 0.53 |

Table 8.D.25 Reliabilities and SEMs by Primary Ethnicity for Economically Disadvantaged (Continued Two)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade** | **Hispanic or Latino N** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American N** | **Black or African American Reliability** | **Black or African American SEM** | **White N** | **White Reliability** | **White SEM** |
| ELA 3 | 28,499 | 0.81 | 0.43 | 2,151 | 0.82 | 0.43 | 7,045 | 0.85 | 0.41 |
| ELA 4 | 29,450 | 0.81 | 0.45 | 2,159 | 0.81 | 0.46 | 7,453 | 0.83 | 0.43 |
| ELA 5 | 30,547 | 0.85 | 0.42 | 2,096 | 0.85 | 0.43 | 7,423 | 0.86 | 0.42 |
| ELA 6 | 32,549 | 0.85 | 0.42 | 2,644 | 0.85 | 0.43 | 7,164 | 0.86 | 0.41 |
| ELA 7 | 36,347 | 0.85 | 0.44 | 2,711 | 0.86 | 0.45 | 7,650 | 0.86 | 0.43 |
| ELA 8 | 36,846 | 0.86 | 0.43 | 2,763 | 0.85 | 0.44 | 7,707 | 0.87 | 0.42 |
| ELA 11 | 84,642 | 0.87 | 0.48 | 5,271 | 0.86 | 0.49 | 12,816 | 0.88 | 0.47 |
| Mathematics 3 | 29,896 | 0.84 | 0.37 | 2,430 | 0.85 | 0.38 | 7,162 | 0.88 | 0.35 |
| Mathematics 4 | 31,230 | 0.83 | 0.40 | 2,526 | 0.83 | 0.41 | 7,579 | 0.87 | 0.36 |
| Mathematics 5 | 32,332 | 0.79 | 0.47 | 2,474 | 0.77 | 0.48 | 7,545 | 0.84 | 0.44 |
| Mathematics 6 | 31,895 | 0.81 | 0.50 | 2,532 | 0.80 | 0.52 | 7,071 | 0.85 | 0.46 |
| Mathematics 7 | 35,989 | 0.77 | 0.59 | 2,567 | 0.75 | 0.60 | 7,567 | 0.81 | 0.54 |
| Mathematics 8 | 36,284 | 0.76 | 0.62 | 2,587 | 0.74 | 0.64 | 7,594 | 0.81 | 0.58 |
| Mathematics 11 | 80,905 | 0.76 | 0.66 | 5,030 | 0.71 | 0.71 | 12,196 | 0.82 | 0.62 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Three—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 8 | 0.57 | 0.75 | 0.58 | 0.74 | 0.55 | 0.74 | 0.49 | 0.75 | 0.39 | 0.80 | 0.57 | 0.74 |
| Claim 2 | 6 | 0.58 | 0.75 | 0.61 | 0.74 | 0.60 | 0.72 | 0.49 | 0.77 | 0.38 | 0.79 | 0.60 | 0.74 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.37 | 0.94 | 0.37 | 0.93 | 0.35 | 0.92 | 0.28 | 0.95 | 0.20 | 0.97 | 0.37 | 0.93 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Four—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 8 | 0.51 | 0.83 | 0.50 | 0.82 | 0.49 | 0.80 | 0.42 | 0.84 | 0.31 | 0.86 | 0.51 | 0.82 |
| Claim 2 | 6 | 0.57 | 0.80 | 0.59 | 0.79 | 0.58 | 0.77 | 0.50 | 0.82 | 0.40 | 0.84 | 0.58 | 0.80 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.30 | 1.04 | 0.30 | 1.04 | 0.27 | 1.02 | 0.23 | 1.06 | 0.11 | 1.09 | 0.30 | 1.04 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Five—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 8 | 0.52 | 0.85 | 0.52 | 0.85 | 0.48 | 0.85 | 0.48 | 0.85 | 0.39 | 0.86 | 0.52 | 0.85 |
| Claim 2 | 6 | 0.66 | 0.78 | 0.67 | 0.78 | 0.65 | 0.77 | 0.63 | 0.78 | 0.59 | 0.79 | 0.67 | 0.78 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.46 | 0.89 | 0.45 | 0.89 | 0.41 | 0.89 | 0.42 | 0.89 | 0.41 | 0.90 | 0.46 | 0.89 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Six—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.61 | 0.80 | 0.61 | 0.79 | 0.61 | 0.78 | 0.56 | 0.80 | 0.49 | 0.81 | 0.62 | 0.79 |
| Claim 2 | 6 | 0.67 | 0.72 | 0.68 | 0.70 | 0.67 | 0.70 | 0.64 | 0.73 | 0.60 | 0.74 | 0.68 | 0.71 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.39 | 1.03 | 0.39 | 1.02 | 0.36 | 1.01 | 0.36 | 1.04 | 0.35 | 1.04 | 0.40 | 1.03 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Seven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.59 | 0.87 | 0.57 | 0.86 | 0.55 | 0.85 | 0.54 | 0.87 | 0.51 | 0.90 | 0.58 | 0.86 |
| Claim 2 | 6 | 0.66 | 0.76 | 0.66 | 0.74 | 0.65 | 0.72 | 0.63 | 0.77 | 0.62 | 0.78 | 0.67 | 0.75 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.39 | 1.02 | 0.39 | 1.00 | 0.37 | 0.99 | 0.36 | 1.03 | 0.38 | 1.04 | 0.40 | 1.01 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Eight—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.66 | 0.79 | 0.65 | 0.78 | 0.64 | 0.77 | 0.61 | 0.79 | 0.58 | 0.81 | 0.66 | 0.78 |
| Claim 2 | 6 | 0.67 | 0.78 | 0.67 | 0.78 | 0.65 | 0.77 | 0.64 | 0.78 | 0.63 | 0.78 | 0.68 | 0.78 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.42 | 1.07 | 0.42 | 1.04 | 0.40 | 1.03 | 0.39 | 1.07 | 0.38 | 1.09 | 0.43 | 1.05 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.63 | 0.87 | 0.61 | 0.86 | 0.61 | 0.86 | 0.60 | 0.87 | 0.59 | 0.88 | 0.62 | 0.86 |
| Claim 2 | 6 | 0.70 | 0.88 | 0.70 | 0.86 | 0.70 | 0.86 | 0.68 | 0.87 | 0.66 | 0.89 | 0.71 | 0.87 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.44 | 1.14 | 0.39 | 1.13 | 0.39 | 1.12 | 0.41 | 1.15 | 0.41 | 1.16 | 0.42 | 1.14 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Three—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.78 | 0.54 | 0.78 | 0.54 | 0.77 | 0.53 | 0.72 | 0.55 | 0.67 | 0.58 | 0.78 | 0.54 |
| Claim 2 | 5–8 | 0.69 | 0.59 | 0.67 | 0.60 | 0.68 | 0.57 | 0.59 | 0.62 | 0.54 | 0.64 | 0.68 | 0.60 |
| Claim 3 | 4–6 | 0.52 | 0.77 | 0.52 | 0.77 | 0.56 | 0.71 | 0.35 | 0.81 | 0.21 | 0.86 | 0.52 | 0.77 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Four—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.78 | 0.57 | 0.76 | 0.56 | 0.78 | 0.53 | 0.69 | 0.59 | 0.59 | 0.62 | 0.77 | 0.56 |
| Claim 2 | 5–8 | 0.66 | 0.65 | 0.64 | 0.65 | 0.66 | 0.63 | 0.55 | 0.67 | 0.45 | 0.69 | 0.65 | 0.65 |
| Claim 3 | 4–6 | 0.55 | 0.78 | 0.51 | 0.78 | 0.58 | 0.71 | 0.35 | 0.83 | 0.17 | 0.87 | 0.53 | 0.78 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Five—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.75 | 0.65 | 0.73 | 0.65 | 0.76 | 0.62 | 0.65 | 0.68 | 0.58 | 0.71 | 0.74 | 0.65 |
| Claim 2 | 5–8 | 0.59 | 0.73 | 0.57 | 0.73 | 0.63 | 0.68 | 0.42 | 0.77 | 0.29 | 0.81 | 0.58 | 0.73 |
| Claim 3 | 4–6 | 0.40 | 0.93 | 0.39 | 0.93 | 0.47 | 0.87 | 0.18 | 0.98 | 0.01 | 1.04 | 0.40 | 0.93 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Six—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 9–10 | 0.76 | 0.69 | 0.75 | 0.69 | 0.76 | 0.66 | 0.69 | 0.71 | 0.62 | 0.73 | 0.76 | 0.69 |
| Claim 2 | 5–8 | 0.55 | 0.78 | 0.54 | 0.79 | 0.58 | 0.75 | 0.40 | 0.82 | 0.24 | 0.86 | 0.55 | 0.79 |
| Claim 3 | 4–6 | 0.40 | 0.92 | 0.40 | 0.92 | 0.48 | 0.87 | 0.21 | 0.96 | 0.01 | 0.98 | 0.40 | 0.92 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Seven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.73 | 0.77 | 0.71 | 0.77 | 0.74 | 0.72 | 0.64 | 0.81 | 0.59 | 0.83 | 0.72 | 0.77 |
| Claim 2 | 5–8 | 0.50 | 0.87 | 0.48 | 0.88 | 0.57 | 0.81 | 0.27 | 0.93 | 0.17 | 0.97 | 0.49 | 0.88 |
| Claim 3 | 4–6 | 0.33 | 1.16 | 0.31 | 1.16 | 0.41 | 1.08 | 0.11 | 1.22 | N/A | N/A | 0.32 | 1.16 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Eight—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 10 | 0.71 | 0.88 | 0.70 | 0.87 | 0.73 | 0.83 | 0.61 | 0.91 | 0.52 | 0.94 | 0.71 | 0.87 |
| Claim 2 | 5–8 | 0.58 | 0.96 | 0.56 | 0.96 | 0.64 | 0.88 | 0.39 | 1.02 | 0.18 | 1.07 | 0.57 | 0.96 |
| Claim 3 | 4–6 | 0.34 | 1.27 | 0.35 | 1.24 | 0.44 | 1.16 | 0.13 | 1.33 | N/A | N/A | 0.35 | 1.25 |

Table 8.D. Claim Reliabilities and SEM by Gender, Economic Status, and Migrant Status for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Male Reliability** | **Male SEM** | **Female Reliability** | **Female SEM** | **Not Economically Disadvantaged Reliability** | **Not Economically Disadvantaged SEM** | **Economically Disadvantaged Reliability** | **Economically Disadvantaged SEM** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant Reliability** | **Not Migrant SEM** |
| Claim 1 | 11 | 0.74 | 0.85 | 0.73 | 0.82 | 0.78 | 0.77 | 0.66 | 0.88 | 0.57 | 0.93 | 0.74 | 0.84 |
| Claim 2 | 5–8 | 0.49 | 1.16 | 0.44 | 1.15 | 0.58 | 1.04 | 0.29 | 1.24 | 0.11 | 1.32 | 0.47 | 1.15 |
| Claim 3 | 4–6 | 0.36 | 1.24 | 0.31 | 1.23 | 0.46 | 1.14 | 0.12 | 1.30 | N/A | N/A | 0.34 | 1.23 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Three—ELA

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 8 | 0.60 | 0.73 | 0.57 | 0.74 | 0.48 | 0.76 | 0.57 | 0.74 |
| Claim 2 | 6 | 0.59 | 0.73 | 0.60 | 0.74 | 0.46 | 0.79 | 0.60 | 0.74 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.36 | 0.93 | 0.37 | 0.93 | 0.29 | 0.95 | 0.37 | 0.93 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Four—ELA

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 8 | 0.51 | 0.80 | 0.51 | 0.82 | 0.38 | 0.86 | 0.51 | 0.82 |
| Claim 2 | 6 | 0.57 | 0.78 | 0.58 | 0.80 | 0.45 | 0.84 | 0.58 | 0.80 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.25 | 1.03 | 0.30 | 1.04 | 0.20 | 1.07 | 0.30 | 1.04 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Five—ELA

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 8 | 0.48 | 0.84 | 0.52 | 0.85 | 0.46 | 0.86 | 0.52 | 0.85 |
| Claim 2 | 6 | 0.65 | 0.78 | 0.67 | 0.78 | 0.59 | 0.79 | 0.67 | 0.78 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.41 | 0.88 | 0.46 | 0.89 | 0.40 | 0.89 | 0.46 | 0.89 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Six—ELA

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.61 | 0.78 | 0.61 | 0.79 | 0.52 | 0.81 | 0.62 | 0.79 |
| Claim 2 | 6 | 0.68 | 0.70 | 0.68 | 0.71 | 0.59 | 0.74 | 0.68 | 0.71 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.37 | 1.02 | 0.40 | 1.03 | 0.31 | 1.04 | 0.40 | 1.03 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Seven—ELA

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.55 | 0.86 | 0.58 | 0.86 | 0.54 | 0.88 | 0.58 | 0.86 |
| Claim 2 | 6 | 0.65 | 0.72 | 0.67 | 0.75 | 0.63 | 0.80 | 0.67 | 0.75 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.35 | 1.00 | 0.40 | 1.01 | 0.35 | 1.05 | 0.40 | 1.01 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Eight—ELA

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.64 | 0.76 | 0.66 | 0.78 | 0.58 | 0.79 | 0.66 | 0.78 |
| Claim 2 | 6 | 0.66 | 0.77 | 0.68 | 0.78 | 0.63 | 0.80 | 0.68 | 0.78 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.38 | 1.03 | 0.43 | 1.05 | 0.36 | 1.09 | 0.43 | 1.05 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.62 | 0.86 | 0.62 | 0.86 | 0.58 | 0.88 | 0.62 | 0.86 |
| Claim 2 | 6 | 0.70 | 0.86 | 0.71 | 0.87 | 0.66 | 0.91 | 0.71 | 0.87 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.41 | 1.13 | 0.42 | 1.14 | 0.41 | 1.16 | 0.42 | 1.14 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Three—Mathematics

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.76 | 0.53 | 0.78 | 0.54 | 0.72 | 0.55 | 0.78 | 0.54 |
| Claim 2 | 5–8 | 0.66 | 0.58 | 0.68 | 0.60 | 0.58 | 0.61 | 0.68 | 0.60 |
| Claim 3 | 4–6 | 0.50 | 0.75 | 0.52 | 0.77 | 0.31 | 0.81 | 0.52 | 0.77 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Four—Mathematics

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.75 | 0.54 | 0.77 | 0.56 | 0.67 | 0.61 | 0.77 | 0.56 |
| Claim 2 | 5–8 | 0.61 | 0.63 | 0.65 | 0.65 | 0.51 | 0.68 | 0.66 | 0.65 |
| Claim 3 | 4–6 | 0.51 | 0.74 | 0.53 | 0.78 | 0.29 | 0.86 | 0.53 | 0.78 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Five—Mathematics

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.72 | 0.63 | 0.74 | 0.65 | 0.63 | 0.69 | 0.74 | 0.65 |
| Claim 2 | 5–8 | 0.56 | 0.70 | 0.58 | 0.73 | 0.34 | 0.79 | 0.59 | 0.73 |
| Claim 3 | 4–6 | 0.39 | 0.91 | 0.40 | 0.93 | 0.11 | 1.00 | 0.40 | 0.93 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Six—Mathematics

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 9–10 | 0.73 | 0.68 | 0.76 | 0.69 | 0.67 | 0.73 | 0.76 | 0.69 |
| Claim 2 | 5–8 | 0.51 | 0.76 | 0.55 | 0.79 | 0.37 | 0.83 | 0.55 | 0.79 |
| Claim 3 | 4–6 | 0.36 | 0.91 | 0.40 | 0.92 | 0.08 | 0.98 | 0.41 | 0.92 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Seven—Mathematics

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.70 | 0.75 | 0.72 | 0.77 | 0.61 | 0.83 | 0.72 | 0.77 |
| Claim 2 | 5–8 | 0.46 | 0.85 | 0.49 | 0.88 | 0.14 | 0.97 | 0.50 | 0.88 |
| Claim 3 | 4–6 | 0.31 | 1.13 | 0.32 | 1.16 | 0.02 | 1.25 | 0.33 | 1.16 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Eight—Mathematics

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 10 | 0.68 | 0.85 | 0.71 | 0.87 | 0.56 | 0.92 | 0.71 | 0.87 |
| Claim 2 | 5–8 | 0.53 | 0.94 | 0.57 | 0.96 | 0.26 | 1.05 | 0.57 | 0.96 |
| Claim 3 | 4–6 | 0.34 | 1.22 | 0.34 | 1.26 | N/A | N/A | 0.35 | 1.25 |

Table 8.D. Claim Reliabilities and SEM by Military Status and Homeless Status for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Military Reliability** | **Military SEM** | **Not Military Reliability** | **Not Military SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** |
| Claim 1 | 11 | 0.76 | 0.80 | 0.74 | 0.84 | 0.62 | 0.91 | 0.74 | 0.83 |
| Claim 2 | 5–8 | 0.49 | 1.10 | 0.47 | 1.16 | 0.18 | 1.30 | 0.47 | 1.15 |
| Claim 3 | 4–6 | 0.40 | 1.18 | 0.34 | 1.23 | N/A | N/A | 0.34 | 1.23 |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Three—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 8 | 0.57 | 0.74 | 0.49 | 0.76 | 0.57 | 0.74 | 0.50 | 0.75 | 0.40 | 0.77 | 0.52 | 0.73 | N/A | N/A |
| Claim 2 | 6 | 0.60 | 0.74 | 0.49 | 0.78 | 0.60 | 0.74 | 0.61 | 0.72 | 0.41 | 0.78 | 0.57 | 0.72 | N/A | N/A |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.37 | 0.93 | 0.29 | 0.96 | 0.36 | 0.93 | 0.34 | 0.90 | 0.20 | 0.96 | 0.32 | 0.92 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Four—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 8 | 0.50 | 0.82 | 0.39 | 0.86 | 0.50 | 0.82 | 0.46 | 0.80 | 0.23 | 0.86 | 0.44 | 0.80 | N/A | N/A |
| Claim 2 | 6 | 0.58 | 0.79 | 0.46 | 0.85 | 0.58 | 0.79 | 0.57 | 0.78 | 0.38 | 0.84 | 0.54 | 0.77 | N/A | N/A |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.30 | 1.03 | 0.19 | 1.08 | 0.29 | 1.03 | 0.21 | 1.00 | 0.10 | 1.08 | 0.21 | 1.02 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Five—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 8 | 0.51 | 0.85 | 0.43 | 0.86 | 0.51 | 0.85 | 0.41 | 0.86 | 0.26 | 0.86 | 0.43 | 0.84 | N/A | N/A |
| Claim 2 | 6 | 0.66 | 0.77 | 0.56 | 0.81 | 0.67 | 0.78 | 0.61 | 0.78 | 0.51 | 0.79 | 0.60 | 0.76 | N/A | N/A |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.44 | 0.89 | 0.37 | 0.90 | 0.44 | 0.89 | 0.33 | 0.90 | 0.25 | 0.89 | 0.36 | 0.89 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Six—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.61 | 0.78 | 0.43 | 0.85 | 0.61 | 0.79 | 0.57 | 0.78 | 0.28 | 0.84 | 0.55 | 0.77 | N/A | N/A |
| Claim 2 | 6 | 0.67 | 0.70 | 0.50 | 0.80 | 0.68 | 0.71 | 0.63 | 0.70 | 0.47 | 0.77 | 0.62 | 0.69 | N/A | N/A |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.37 | 1.02 | 0.26 | 1.06 | 0.38 | 1.02 | 0.31 | 1.01 | 0.19 | 1.06 | 0.29 | 1.02 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Seven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.57 | 0.86 | 0.43 | 0.90 | 0.58 | 0.86 | 0.49 | 0.87 | 0.25 | 0.90 | 0.51 | 0.85 | N/A | N/A |
| Claim 2 | 6 | 0.66 | 0.73 | 0.49 | 0.87 | 0.67 | 0.74 | 0.62 | 0.72 | 0.44 | 0.84 | 0.61 | 0.72 | N/A | N/A |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.38 | 1.00 | 0.17 | 1.09 | 0.39 | 1.01 | 0.30 | 0.97 | 0.09 | 1.07 | 0.32 | 0.99 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Eight—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.65 | 0.78 | 0.45 | 0.83 | 0.65 | 0.78 | 0.60 | 0.78 | 0.29 | 0.83 | 0.60 | 0.77 | N/A | N/A |
| Claim 2 | 6 | 0.66 | 0.77 | 0.50 | 0.83 | 0.67 | 0.78 | 0.63 | 0.78 | 0.42 | 0.82 | 0.61 | 0.77 | N/A | N/A |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.41 | 1.04 | 0.16 | 1.16 | 0.42 | 1.04 | 0.32 | 1.02 | 0.08 | 1.15 | 0.36 | 1.03 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.61 | 0.86 | 0.45 | 0.94 | 0.62 | 0.86 | 0.58 | 0.86 | 0.26 | 0.95 | 0.58 | 0.85 | 0.27 | 0.91 |
| Claim 2 | 6 | 0.70 | 0.86 | 0.44 | 0.97 | 0.71 | 0.86 | 0.69 | 0.86 | 0.30 | 0.96 | 0.68 | 0.85 | N/A | N/A |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.40 | 1.13 | 0.24 | 1.20 | 0.42 | 1.13 | 0.33 | 1.12 | 0.11 | 1.20 | 0.37 | 1.13 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Three—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.78 | 0.54 | 0.76 | 0.58 | 0.78 | 0.53 | 0.78 | 0.54 | 0.70 | 0.56 | 0.75 | 0.52 | N/A | N/A |
| Claim 2 | 5–8 | 0.68 | 0.59 | 0.63 | 0.65 | 0.68 | 0.59 | 0.68 | 0.58 | 0.54 | 0.64 | 0.67 | 0.57 | N/A | N/A |
| Claim 3 | 4–6 | 0.52 | 0.76 | 0.39 | 0.84 | 0.53 | 0.75 | 0.59 | 0.69 | 0.25 | 0.84 | 0.53 | 0.72 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Four—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.77 | 0.56 | 0.72 | 0.63 | 0.77 | 0.55 | 0.78 | 0.53 | 0.63 | 0.62 | 0.76 | 0.53 | N/A | N/A |
| Claim 2 | 5–8 | 0.65 | 0.65 | 0.59 | 0.70 | 0.65 | 0.64 | 0.66 | 0.62 | 0.44 | 0.70 | 0.63 | 0.63 | N/A | N/A |
| Claim 3 | 4–6 | 0.54 | 0.76 | 0.34 | 0.89 | 0.54 | 0.76 | 0.63 | 0.68 | 0.15 | 0.88 | 0.54 | 0.73 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Five—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.74 | 0.64 | 0.65 | 0.72 | 0.75 | 0.64 | 0.77 | 0.61 | 0.53 | 0.71 | 0.71 | 0.64 | N/A | N/A |
| Claim 2 | 5–8 | 0.59 | 0.72 | 0.42 | 0.81 | 0.59 | 0.71 | 0.68 | 0.66 | 0.11 | 0.84 | 0.55 | 0.71 | N/A | N/A |
| Claim 3 | 4–6 | 0.41 | 0.91 | 0.06 | 1.04 | 0.42 | 0.91 | 0.52 | 0.83 | N/A | N/A | 0.38 | 0.90 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Six—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 9–10 | 0.75 | 0.68 | 0.65 | 0.77 | 0.76 | 0.68 | 0.77 | 0.65 | 0.57 | 0.76 | 0.72 | 0.67 | N/A | N/A |
| Claim 2 | 5–8 | 0.55 | 0.78 | 0.35 | 0.89 | 0.55 | 0.77 | 0.62 | 0.73 | 0.06 | 0.88 | 0.50 | 0.76 | N/A | N/A |
| Claim 3 | 4–6 | 0.41 | 0.91 | 0.02 | 1.03 | 0.42 | 0.91 | 0.55 | 0.84 | N/A | N/A | 0.38 | 0.89 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Seven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.71 | 0.75 | 0.51 | 0.91 | 0.72 | 0.75 | 0.76 | 0.70 | 0.43 | 0.89 | 0.69 | 0.74 | N/A | N/A |
| Claim 2 | 5–8 | 0.50 | 0.86 | 0.08 | 1.03 | 0.50 | 0.86 | 0.63 | 0.78 | N/A | N/A | 0.45 | 0.86 | N/A | N/A |
| Claim 3 | 4–6 | 0.33 | 1.14 | N/A | N/A | 0.34 | 1.14 | 0.49 | 1.02 | N/A | N/A | 0.28 | 1.14 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Eight—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 10 | 0.70 | 0.86 | 0.46 | 0.97 | 0.71 | 0.86 | 0.77 | 0.79 | 0.37 | 0.97 | 0.67 | 0.86 | N/A | N/A |
| Claim 2 | 5–8 | 0.58 | 0.94 | 0.06 | 1.15 | 0.58 | 0.93 | 0.69 | 0.83 | N/A | N/A | 0.53 | 0.94 | N/A | N/A |
| Claim 3 | 4–6 | 0.36 | 1.23 | N/A | N/A | 0.37 | 1.23 | 0.51 | 1.09 | N/A | N/A | 0.30 | 1.22 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Special Education Services Status and English Fluency for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **No Special Education Services Reliability** | **No Special Education Services SEM** | **With Special Education Services Reliability** | **With Special Education Services SEM** | **English Only Reliability** | **English Only SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Claim 1 | 11 | 0.74 | 0.81 | 0.36 | 1.06 | 0.75 | 0.82 | 0.80 | 0.74 | 0.45 | 1.02 | 0.72 | 0.82 | N/A | N/A |
| Claim 2 | 5–8 | 0.48 | 1.12 | N/A | N/A | 0.50 | 1.12 | 0.62 | 0.98 | N/A | N/A | 0.41 | 1.15 | N/A | N/A |
| Claim 3 | 4–6 | 0.35 | 1.21 | N/A | N/A | 0.38 | 1.21 | 0.50 | 1.10 | N/A | N/A | 0.28 | 1.24 | N/A | N/A |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Three—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.50 | 0.75 | 0.57 | 0.75 | 0.55 | 0.73 | 0.53 | 0.73 | 0.50 | 0.75 | 0.52 | 0.76 | 0.56 | 0.73 |
| Claim 2 | 6 | 0.48 | 0.75 | 0.63 | 0.73 | 0.56 | 0.77 | 0.60 | 0.71 | 0.51 | 0.76 | 0.53 | 0.76 | 0.59 | 0.72 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.23 | 0.94 | 0.40 | 0.91 | 0.30 | 0.95 | 0.33 | 0.91 | 0.29 | 0.95 | 0.32 | 0.95 | 0.34 | 0.92 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Four—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.39 | 0.83 | 0.51 | 0.80 | 0.51 | 0.84 | 0.48 | 0.81 | 0.43 | 0.84 | 0.45 | 0.85 | 0.49 | 0.81 |
| Claim 2 | 6 | 0.48 | 0.82 | 0.60 | 0.78 | 0.55 | 0.81 | 0.58 | 0.77 | 0.51 | 0.81 | 0.53 | 0.82 | 0.57 | 0.78 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.28 | 1.06 | 0.30 | 1.01 | 0.31 | 1.06 | 0.22 | 1.02 | 0.24 | 1.05 | 0.24 | 1.06 | 0.27 | 1.02 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Five—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.51 | 0.86 | 0.48 | 0.85 | 0.50 | 0.86 | 0.44 | 0.84 | 0.47 | 0.85 | 0.50 | 0.85 | 0.49 | 0.85 |
| Claim 2 | 6 | 0.64 | 0.76 | 0.65 | 0.79 | 0.66 | 0.80 | 0.63 | 0.78 | 0.63 | 0.78 | 0.65 | 0.79 | 0.65 | 0.77 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.47 | 0.89 | 0.42 | 0.90 | 0.41 | 0.89 | 0.40 | 0.90 | 0.42 | 0.89 | 0.44 | 0.90 | 0.42 | 0.89 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Six—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.57 | 0.81 | 0.61 | 0.78 | 0.57 | 0.77 | 0.58 | 0.78 | 0.56 | 0.80 | 0.57 | 0.81 | 0.60 | 0.78 |
| Claim 2 | 6 | 0.60 | 0.73 | 0.66 | 0.71 | 0.66 | 0.72 | 0.65 | 0.69 | 0.64 | 0.72 | 0.65 | 0.74 | 0.67 | 0.69 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.29 | 1.03 | 0.36 | 1.01 | 0.33 | 1.03 | 0.35 | 1.01 | 0.37 | 1.04 | 0.36 | 1.03 | 0.35 | 1.02 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Seven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.54 | 0.86 | 0.55 | 0.87 | 0.57 | 0.87 | 0.53 | 0.85 | 0.54 | 0.87 | 0.55 | 0.88 | 0.56 | 0.85 |
| Claim 2 | 6 | 0.65 | 0.78 | 0.62 | 0.73 | 0.65 | 0.77 | 0.61 | 0.72 | 0.63 | 0.77 | 0.64 | 0.79 | 0.66 | 0.72 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.32 | 1.05 | 0.35 | 0.97 | 0.35 | 1.01 | 0.31 | 0.97 | 0.36 | 1.03 | 0.37 | 1.05 | 0.37 | 1.00 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Eight—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.63 | 0.78 | 0.63 | 0.79 | 0.56 | 0.77 | 0.60 | 0.77 | 0.61 | 0.79 | 0.62 | 0.79 | 0.65 | 0.77 |
| Claim 2 | 6 | 0.63 | 0.79 | 0.62 | 0.79 | 0.64 | 0.79 | 0.59 | 0.77 | 0.64 | 0.78 | 0.65 | 0.79 | 0.66 | 0.77 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.36 | 1.08 | 0.36 | 1.03 | 0.36 | 1.05 | 0.36 | 1.02 | 0.39 | 1.07 | 0.37 | 1.08 | 0.40 | 1.03 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.61 | 0.88 | 0.59 | 0.86 | 0.60 | 0.87 | 0.58 | 0.85 | 0.59 | 0.87 | 0.60 | 0.88 | 0.61 | 0.86 |
| Claim 2 | 6 | 0.68 | 0.88 | 0.67 | 0.87 | 0.69 | 0.87 | 0.66 | 0.86 | 0.67 | 0.87 | 0.66 | 0.90 | 0.70 | 0.85 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.44 | 1.14 | 0.32 | 1.13 | 0.40 | 1.14 | 0.30 | 1.12 | 0.40 | 1.14 | 0.40 | 1.16 | 0.40 | 1.12 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Three—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.72 | 0.56 | 0.78 | 0.54 | 0.73 | 0.55 | 0.75 | 0.52 | 0.72 | 0.55 | 0.73 | 0.55 | 0.77 | 0.53 |
| Claim 2 | 5–8 | 0.60 | 0.61 | 0.71 | 0.58 | 0.64 | 0.62 | 0.64 | 0.57 | 0.60 | 0.62 | 0.58 | 0.62 | 0.67 | 0.57 |
| Claim 3 | 4–6 | 0.33 | 0.82 | 0.61 | 0.70 | 0.40 | 0.80 | 0.53 | 0.71 | 0.36 | 0.81 | 0.38 | 0.81 | 0.54 | 0.72 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Four—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.71 | 0.60 | 0.79 | 0.54 | 0.73 | 0.57 | 0.74 | 0.52 | 0.70 | 0.59 | 0.70 | 0.60 | 0.77 | 0.53 |
| Claim 2 | 5–8 | 0.57 | 0.68 | 0.68 | 0.64 | 0.59 | 0.64 | 0.60 | 0.62 | 0.56 | 0.67 | 0.54 | 0.68 | 0.64 | 0.63 |
| Claim 3 | 4–6 | 0.34 | 0.84 | 0.63 | 0.69 | 0.43 | 0.77 | 0.54 | 0.70 | 0.36 | 0.83 | 0.36 | 0.85 | 0.56 | 0.73 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Five—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.68 | 0.69 | 0.78 | 0.61 | 0.67 | 0.66 | 0.72 | 0.61 | 0.65 | 0.68 | 0.66 | 0.68 | 0.74 | 0.62 |
| Claim 2 | 5–8 | 0.46 | 0.76 | 0.68 | 0.66 | 0.42 | 0.78 | 0.59 | 0.68 | 0.42 | 0.77 | 0.40 | 0.78 | 0.60 | 0.69 |
| Claim 3 | 4–6 | 0.19 | 0.98 | 0.53 | 0.83 | 0.30 | 0.95 | 0.43 | 0.86 | 0.20 | 0.98 | 0.13 | 1.00 | 0.43 | 0.88 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Six—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 9–10 | 0.67 | 0.72 | 0.78 | 0.66 | 0.70 | 0.68 | 0.74 | 0.66 | 0.69 | 0.71 | 0.69 | 0.73 | 0.75 | 0.66 |
| Claim 2 | 5–8 | 0.39 | 0.83 | 0.63 | 0.74 | 0.42 | 0.79 | 0.53 | 0.74 | 0.40 | 0.82 | 0.36 | 0.83 | 0.56 | 0.76 |
| Claim 3 | 4–6 | 0.13 | 0.94 | 0.54 | 0.84 | 0.20 | 0.95 | 0.44 | 0.85 | 0.21 | 0.95 | 0.12 | 0.97 | 0.43 | 0.89 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Seven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.64 | 0.82 | 0.76 | 0.70 | 0.67 | 0.76 | 0.72 | 0.70 | 0.64 | 0.80 | 0.64 | 0.80 | 0.71 | 0.73 |
| Claim 2 | 5–8 | 0.28 | 0.92 | 0.64 | 0.76 | 0.33 | 0.90 | 0.55 | 0.80 | 0.27 | 0.93 | 0.23 | 0.96 | 0.52 | 0.82 |
| Claim 3 | 4–6 | 0.02 | 1.23 | 0.51 | 1.00 | 0.06 | 1.17 | 0.38 | 1.05 | 0.11 | 1.22 | 0.08 | 1.22 | 0.35 | 1.11 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Eight—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.64 | 0.89 | 0.78 | 0.79 | 0.62 | 0.90 | 0.70 | 0.81 | 0.60 | 0.91 | 0.61 | 0.91 | 0.71 | 0.84 |
| Claim 2 | 5–8 | 0.39 | 1.02 | 0.70 | 0.82 | 0.46 | 0.97 | 0.60 | 0.87 | 0.39 | 1.02 | 0.35 | 1.05 | 0.59 | 0.90 |
| Claim 3 | 4–6 | 0.14 | 1.34 | 0.53 | 1.08 | 0.25 | 1.27 | 0.39 | 1.12 | 0.12 | 1.32 | 0.09 | 1.34 | 0.40 | 1.19 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 11 | 0.62 | 0.92 | 0.81 | 0.70 | 0.70 | 0.84 | 0.76 | 0.72 | 0.64 | 0.88 | 0.63 | 0.91 | 0.76 | 0.79 |
| Claim 2 | 5–8 | 0.26 | 1.31 | 0.66 | 0.89 | 0.39 | 1.18 | 0.54 | 0.99 | 0.24 | 1.24 | 0.18 | 1.33 | 0.53 | 1.07 |
| Claim 3 | 4–6 | 0.08 | 1.33 | 0.54 | 1.02 | 0.27 | 1.25 | 0.41 | 1.12 | 0.07 | 1.30 | N/A | N/A | 0.42 | 1.16 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Three—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.56 | 0.75 | 0.49 | 0.75 | 0.56 | 0.73 | 0.50 | 0.73 | 0.55 | 0.74 | 0.57 | 0.74 | 0.52 | 0.73 |
| Claim 2 | 6 | 0.55 | 0.73 | 0.59 | 0.72 | 0.61 | 0.73 | 0.60 | 0.71 | 0.57 | 0.73 | 0.57 | 0.74 | 0.58 | 0.71 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.25 | 0.94 | 0.32 | 0.90 | 0.30 | 0.92 | 0.33 | 0.91 | 0.32 | 0.93 | 0.34 | 0.92 | 0.31 | 0.91 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Four—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.53 | 0.82 | 0.44 | 0.79 | 0.53 | 0.82 | 0.47 | 0.80 | 0.49 | 0.82 | 0.47 | 0.83 | 0.46 | 0.80 |
| Claim 2 | 6 | 0.59 | 0.81 | 0.55 | 0.78 | 0.57 | 0.78 | 0.57 | 0.77 | 0.56 | 0.78 | 0.56 | 0.79 | 0.56 | 0.77 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.36 | 1.05 | 0.21 | 1.00 | 0.32 | 1.06 | 0.21 | 1.02 | 0.27 | 1.03 | 0.22 | 1.05 | 0.23 | 1.01 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Five—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.54 | 0.85 | 0.38 | 0.86 | 0.45 | 0.86 | 0.43 | 0.84 | 0.49 | 0.84 | 0.49 | 0.84 | 0.44 | 0.85 |
| Claim 2 | 6 | 0.66 | 0.75 | 0.57 | 0.79 | 0.67 | 0.77 | 0.61 | 0.79 | 0.65 | 0.77 | 0.65 | 0.76 | 0.63 | 0.77 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.51 | 0.90 | 0.30 | 0.91 | 0.32 | 0.91 | 0.37 | 0.90 | 0.42 | 0.89 | 0.40 | 0.89 | 0.37 | 0.89 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Six—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.60 | 0.80 | 0.54 | 0.78 | 0.58 | 0.76 | 0.57 | 0.77 | 0.59 | 0.79 | 0.60 | 0.78 | 0.58 | 0.77 |
| Claim 2 | 6 | 0.68 | 0.68 | 0.59 | 0.71 | 0.64 | 0.69 | 0.62 | 0.69 | 0.66 | 0.70 | 0.67 | 0.71 | 0.65 | 0.69 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.31 | 1.02 | 0.25 | 1.00 | 0.25 | 1.01 | 0.32 | 1.00 | 0.36 | 1.02 | 0.35 | 1.01 | 0.32 | 1.01 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Seven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.52 | 0.84 | 0.46 | 0.87 | 0.58 | 0.86 | 0.52 | 0.85 | 0.56 | 0.86 | 0.56 | 0.86 | 0.53 | 0.85 |
| Claim 2 | 6 | 0.66 | 0.73 | 0.53 | 0.72 | 0.67 | 0.77 | 0.59 | 0.73 | 0.64 | 0.73 | 0.64 | 0.76 | 0.63 | 0.71 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.37 | 0.99 | 0.26 | 0.96 | 0.40 | 0.99 | 0.30 | 0.97 | 0.37 | 1.01 | 0.38 | 1.03 | 0.34 | 0.98 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Eight—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.67 | 0.78 | 0.55 | 0.79 | 0.58 | 0.76 | 0.58 | 0.77 | 0.63 | 0.77 | 0.63 | 0.77 | 0.63 | 0.77 |
| Claim 2 | 6 | 0.67 | 0.80 | 0.53 | 0.80 | 0.64 | 0.79 | 0.56 | 0.78 | 0.66 | 0.77 | 0.67 | 0.77 | 0.63 | 0.77 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.38 | 1.08 | 0.24 | 1.02 | 0.33 | 1.05 | 0.34 | 1.01 | 0.40 | 1.04 | 0.39 | 1.05 | 0.38 | 1.02 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.63 | 0.86 | 0.55 | 0.87 | 0.61 | 0.88 | 0.55 | 0.85 | 0.61 | 0.86 | 0.62 | 0.87 | 0.60 | 0.86 |
| Claim 2 | 6 | 0.70 | 0.87 | 0.62 | 0.87 | 0.69 | 0.84 | 0.63 | 0.86 | 0.69 | 0.86 | 0.69 | 0.87 | 0.69 | 0.85 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.46 | 1.12 | 0.23 | 1.12 | 0.40 | 1.14 | 0.27 | 1.12 | 0.40 | 1.13 | 0.42 | 1.14 | 0.37 | 1.12 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Three—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.77 | 0.54 | 0.72 | 0.54 | 0.74 | 0.53 | 0.74 | 0.52 | 0.75 | 0.53 | 0.74 | 0.53 | 0.74 | 0.52 |
| Claim 2 | 5–8 | 0.63 | 0.57 | 0.65 | 0.58 | 0.65 | 0.59 | 0.64 | 0.56 | 0.65 | 0.59 | 0.62 | 0.58 | 0.65 | 0.56 |
| Claim 3 | 4–6 | 0.50 | 0.74 | 0.56 | 0.68 | 0.42 | 0.76 | 0.52 | 0.70 | 0.47 | 0.76 | 0.45 | 0.74 | 0.53 | 0.70 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Four—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.77 | 0.57 | 0.74 | 0.53 | 0.77 | 0.57 | 0.73 | 0.51 | 0.74 | 0.55 | 0.74 | 0.55 | 0.76 | 0.52 |
| Claim 2 | 5–8 | 0.64 | 0.65 | 0.62 | 0.63 | 0.62 | 0.63 | 0.59 | 0.62 | 0.61 | 0.64 | 0.60 | 0.66 | 0.63 | 0.62 |
| Claim 3 | 4–6 | 0.48 | 0.76 | 0.58 | 0.66 | 0.48 | 0.76 | 0.54 | 0.68 | 0.49 | 0.77 | 0.48 | 0.76 | 0.56 | 0.70 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Five—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.72 | 0.66 | 0.74 | 0.59 | 0.70 | 0.62 | 0.71 | 0.60 | 0.70 | 0.65 | 0.71 | 0.65 | 0.74 | 0.61 |
| Claim 2 | 5–8 | 0.52 | 0.73 | 0.66 | 0.63 | 0.50 | 0.72 | 0.60 | 0.66 | 0.52 | 0.73 | 0.49 | 0.73 | 0.62 | 0.66 |
| Claim 3 | 4–6 | 0.27 | 0.93 | 0.49 | 0.79 | 0.35 | 0.89 | 0.46 | 0.84 | 0.33 | 0.92 | 0.30 | 0.94 | 0.44 | 0.85 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Six—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 9–10 | 0.70 | 0.69 | 0.73 | 0.65 | 0.71 | 0.67 | 0.73 | 0.66 | 0.72 | 0.68 | 0.71 | 0.70 | 0.73 | 0.65 |
| Claim 2 | 5–8 | 0.43 | 0.78 | 0.58 | 0.72 | 0.44 | 0.77 | 0.53 | 0.73 | 0.48 | 0.78 | 0.41 | 0.80 | 0.56 | 0.74 |
| Claim 3 | 4–6 | 0.30 | 0.92 | 0.51 | 0.81 | 0.22 | 0.91 | 0.45 | 0.83 | 0.34 | 0.91 | 0.26 | 0.94 | 0.45 | 0.87 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Seven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.67 | 0.78 | 0.72 | 0.68 | 0.69 | 0.73 | 0.72 | 0.69 | 0.68 | 0.76 | 0.69 | 0.76 | 0.71 | 0.71 |
| Claim 2 | 5–8 | 0.38 | 0.87 | 0.62 | 0.73 | 0.46 | 0.83 | 0.57 | 0.78 | 0.41 | 0.88 | 0.36 | 0.90 | 0.54 | 0.80 |
| Claim 3 | 4–6 | N/A | N/A | 0.48 | 0.95 | 0.18 | 1.10 | 0.38 | 1.01 | 0.24 | 1.16 | 0.23 | 1.15 | 0.37 | 1.07 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Eight—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.71 | 0.88 | 0.75 | 0.76 | 0.63 | 0.85 | 0.70 | 0.81 | 0.66 | 0.87 | 0.66 | 0.89 | 0.71 | 0.82 |
| Claim 2 | 5–8 | 0.51 | 0.96 | 0.68 | 0.77 | 0.57 | 0.91 | 0.61 | 0.86 | 0.50 | 0.95 | 0.46 | 0.97 | 0.61 | 0.86 |
| Claim 3 | 4–6 | 0.33 | 1.28 | 0.51 | 1.03 | 0.34 | 1.16 | 0.40 | 1.10 | 0.26 | 1.25 | 0.25 | 1.27 | 0.43 | 1.15 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Not Economically Disadvantaged for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 11 | 0.67 | 0.89 | 0.79 | 0.67 | 0.75 | 0.81 | 0.77 | 0.71 | 0.70 | 0.83 | 0.70 | 0.85 | 0.77 | 0.76 |
| Claim 2 | 5–8 | 0.38 | 1.24 | 0.67 | 0.83 | 0.47 | 1.12 | 0.56 | 0.96 | 0.38 | 1.16 | 0.36 | 1.23 | 0.56 | 1.01 |
| Claim 3 | 4–6 | 0.24 | 1.28 | 0.54 | 0.97 | 0.38 | 1.21 | 0.43 | 1.09 | 0.24 | 1.24 | 0.21 | 1.27 | 0.45 | 1.13 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Three—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.44 | 0.75 | 0.53 | 0.74 | 0.52 | 0.74 | 0.54 | 0.73 | 0.45 | 0.76 | 0.47 | 0.76 | 0.54 | 0.74 |
| Claim 2 | 6 | 0.40 | 0.76 | 0.58 | 0.75 | 0.49 | 0.80 | 0.56 | 0.72 | 0.45 | 0.77 | 0.48 | 0.77 | 0.54 | 0.75 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.18 | 0.94 | 0.34 | 0.94 | 0.25 | 0.98 | 0.30 | 0.92 | 0.24 | 0.95 | 0.28 | 0.97 | 0.32 | 0.94 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Four—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.29 | 0.84 | 0.46 | 0.82 | 0.43 | 0.86 | 0.46 | 0.83 | 0.38 | 0.85 | 0.41 | 0.86 | 0.47 | 0.82 |
| Claim 2 | 6 | 0.38 | 0.83 | 0.58 | 0.79 | 0.53 | 0.83 | 0.57 | 0.78 | 0.47 | 0.82 | 0.48 | 0.83 | 0.53 | 0.80 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.22 | 1.07 | 0.28 | 1.03 | 0.28 | 1.06 | 0.24 | 1.02 | 0.20 | 1.06 | 0.21 | 1.07 | 0.24 | 1.04 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Five—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 8 | 0.45 | 0.87 | 0.51 | 0.85 | 0.50 | 0.86 | 0.44 | 0.83 | 0.45 | 0.85 | 0.47 | 0.86 | 0.51 | 0.84 |
| Claim 2 | 6 | 0.63 | 0.77 | 0.68 | 0.78 | 0.63 | 0.81 | 0.65 | 0.75 | 0.61 | 0.78 | 0.61 | 0.80 | 0.64 | 0.77 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.43 | 0.88 | 0.47 | 0.89 | 0.38 | 0.88 | 0.44 | 0.88 | 0.40 | 0.89 | 0.41 | 0.90 | 0.42 | 0.89 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Six—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.55 | 0.82 | 0.62 | 0.79 | 0.54 | 0.78 | 0.57 | 0.79 | 0.53 | 0.81 | 0.54 | 0.83 | 0.58 | 0.78 |
| Claim 2 | 6 | 0.53 | 0.76 | 0.68 | 0.71 | 0.64 | 0.74 | 0.67 | 0.70 | 0.62 | 0.73 | 0.61 | 0.75 | 0.65 | 0.71 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.28 | 1.04 | 0.41 | 1.03 | 0.34 | 1.04 | 0.39 | 1.02 | 0.35 | 1.04 | 0.34 | 1.04 | 0.33 | 1.04 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Seven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.54 | 0.88 | 0.59 | 0.87 | 0.53 | 0.88 | 0.54 | 0.86 | 0.52 | 0.87 | 0.52 | 0.89 | 0.56 | 0.86 |
| Claim 2 | 6 | 0.60 | 0.80 | 0.67 | 0.74 | 0.62 | 0.78 | 0.62 | 0.72 | 0.61 | 0.78 | 0.61 | 0.81 | 0.65 | 0.75 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.26 | 1.08 | 0.40 | 0.99 | 0.27 | 1.03 | 0.32 | 0.98 | 0.34 | 1.03 | 0.33 | 1.06 | 0.34 | 1.03 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Eight—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.59 | 0.78 | 0.66 | 0.78 | 0.52 | 0.77 | 0.63 | 0.77 | 0.59 | 0.79 | 0.59 | 0.80 | 0.64 | 0.77 |
| Claim 2 | 6 | 0.58 | 0.77 | 0.65 | 0.78 | 0.63 | 0.80 | 0.60 | 0.77 | 0.62 | 0.78 | 0.62 | 0.80 | 0.65 | 0.77 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.34 | 1.08 | 0.43 | 1.04 | 0.34 | 1.05 | 0.38 | 1.04 | 0.37 | 1.08 | 0.34 | 1.10 | 0.39 | 1.06 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.56 | 0.89 | 0.61 | 0.86 | 0.58 | 0.86 | 0.59 | 0.84 | 0.58 | 0.87 | 0.58 | 0.89 | 0.61 | 0.86 |
| Claim 2 | 6 | 0.63 | 0.89 | 0.70 | 0.86 | 0.68 | 0.90 | 0.69 | 0.86 | 0.66 | 0.87 | 0.62 | 0.91 | 0.69 | 0.87 |
| Claim 3 | 4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Claim 4 | 5 | 0.40 | 1.15 | 0.38 | 1.13 | 0.40 | 1.14 | 0.33 | 1.12 | 0.39 | 1.15 | 0.37 | 1.17 | 0.41 | 1.14 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Three—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.68 | 0.57 | 0.77 | 0.53 | 0.71 | 0.56 | 0.73 | 0.52 | 0.69 | 0.56 | 0.70 | 0.56 | 0.75 | 0.54 |
| Claim 2 | 5–8 | 0.57 | 0.63 | 0.67 | 0.59 | 0.63 | 0.64 | 0.63 | 0.57 | 0.55 | 0.63 | 0.54 | 0.64 | 0.64 | 0.59 |
| Claim 3 | 4–6 | 0.17 | 0.85 | 0.52 | 0.76 | 0.37 | 0.83 | 0.48 | 0.74 | 0.27 | 0.83 | 0.30 | 0.83 | 0.45 | 0.78 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Four—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.66 | 0.61 | 0.75 | 0.56 | 0.68 | 0.57 | 0.74 | 0.54 | 0.66 | 0.60 | 0.66 | 0.62 | 0.73 | 0.56 |
| Claim 2 | 5–8 | 0.49 | 0.69 | 0.62 | 0.65 | 0.53 | 0.65 | 0.59 | 0.63 | 0.51 | 0.68 | 0.47 | 0.69 | 0.60 | 0.65 |
| Claim 3 | 4–6 | 0.23 | 0.87 | 0.52 | 0.75 | 0.37 | 0.78 | 0.51 | 0.74 | 0.27 | 0.85 | 0.25 | 0.88 | 0.45 | 0.79 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Five—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.64 | 0.70 | 0.74 | 0.64 | 0.60 | 0.68 | 0.71 | 0.63 | 0.61 | 0.69 | 0.60 | 0.69 | 0.69 | 0.66 |
| Claim 2 | 5–8 | 0.41 | 0.78 | 0.60 | 0.72 | 0.29 | 0.83 | 0.55 | 0.70 | 0.35 | 0.79 | 0.30 | 0.81 | 0.47 | 0.74 |
| Claim 3 | 4–6 | 0.11 | 1.00 | 0.42 | 0.89 | 0.21 | 0.99 | 0.33 | 0.90 | 0.10 | 1.00 | N/A | N/A | 0.26 | 0.95 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Six—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 9–10 | 0.63 | 0.73 | 0.76 | 0.67 | 0.67 | 0.69 | 0.72 | 0.67 | 0.66 | 0.72 | 0.66 | 0.74 | 0.71 | 0.69 |
| Claim 2 | 5–8 | 0.33 | 0.85 | 0.56 | 0.77 | 0.40 | 0.80 | 0.50 | 0.76 | 0.35 | 0.83 | 0.30 | 0.85 | 0.46 | 0.79 |
| Claim 3 | 4–6 | N/A | N/A | 0.43 | 0.89 | 0.15 | 0.98 | 0.38 | 0.89 | 0.14 | 0.97 | 0.00 | 0.99 | 0.27 | 0.94 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Seven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.60 | 0.83 | 0.75 | 0.72 | 0.64 | 0.78 | 0.70 | 0.71 | 0.61 | 0.82 | 0.59 | 0.83 | 0.66 | 0.78 |
| Claim 2 | 5–8 | 0.17 | 0.94 | 0.55 | 0.83 | 0.05 | 0.95 | 0.47 | 0.84 | 0.17 | 0.95 | 0.10 | 0.99 | 0.36 | 0.89 |
| Claim 3 | 4–6 | 0.03 | 1.26 | 0.41 | 1.11 | N/A | N/A | 0.33 | 1.13 | 0.02 | 1.24 | N/A | N/A | 0.17 | 1.19 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Eight—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 10 | 0.57 | 0.90 | 0.75 | 0.84 | 0.56 | 0.94 | 0.69 | 0.83 | 0.57 | 0.92 | 0.56 | 0.93 | 0.64 | 0.88 |
| Claim 2 | 5–8 | 0.27 | 1.05 | 0.64 | 0.89 | 0.27 | 1.01 | 0.55 | 0.90 | 0.31 | 1.04 | 0.23 | 1.08 | 0.44 | 0.98 |
| Claim 3 | 4–6 | N/A | N/A | 0.44 | 1.18 | 0.07 | 1.37 | 0.31 | 1.16 | 0.04 | 1.35 | N/A | N/A | 0.21 | 1.28 |

Table 8.D. Claim Reliabilities and SEM by Primary Ethnicity for Economically Disadvantaged for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **American Indian or Alaska Native Reliability** | **American Indian or Alaska Native SEM** | **Asian Reliability** | **Asian SEM** | **Native Hawaiian or Other Pacific Islander Reliability** | **Native Hawaiian or Other Pacific Islander SEM** | **Filipino Reliability** | **Filipino SEM** | **Hispanic or Latino Reliability** | **Hispanic or Latino SEM** | **Black or African American Reliability** | **Black or African American SEM** | **White Reliability** | **White SEM** |
| Claim 1 | 11 | 0.56 | 0.94 | 0.79 | 0.74 | 0.64 | 0.87 | 0.74 | 0.74 | 0.62 | 0.89 | 0.58 | 0.94 | 0.69 | 0.87 |
| Claim 2 | 5–8 | 0.10 | 1.37 | 0.59 | 0.98 | 0.27 | 1.24 | 0.48 | 1.03 | 0.18 | 1.27 | 0.02 | 1.38 | 0.37 | 1.20 |
| Claim 3 | 4–6 | N/A | N/A | 0.46 | 1.11 | 0.07 | 1.29 | 0.35 | 1.18 | N/A | N/A | N/A | N/A | 0.23 | 1.26 |

### Appendix 8.E: Scale Score Conditional Standard Error of Measurement Distribution

**Notes:**

* CSEMs reported in these tables and figures are not truncated.
* An expression that opens with a bracket and closes with a parenthesis indicates that a value is greater than the first number and is less than or equal to the second number. For example, “[20, 25)” indicates a value greater than or equal to 20 but less than 25.
* Distributions of CSEM under the adjusted blueprint and the full form blueprint are combined to report in table 8.E.1 through table 8.E.14. Data in these tables is used to create the distribution plots presented in figure 8.E.1 through figure 8.E.14.

Figure 8.E.1 for grade three ELA presents the CSEM distribution plot chart that was created using the data in table 8.E.1, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.1 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

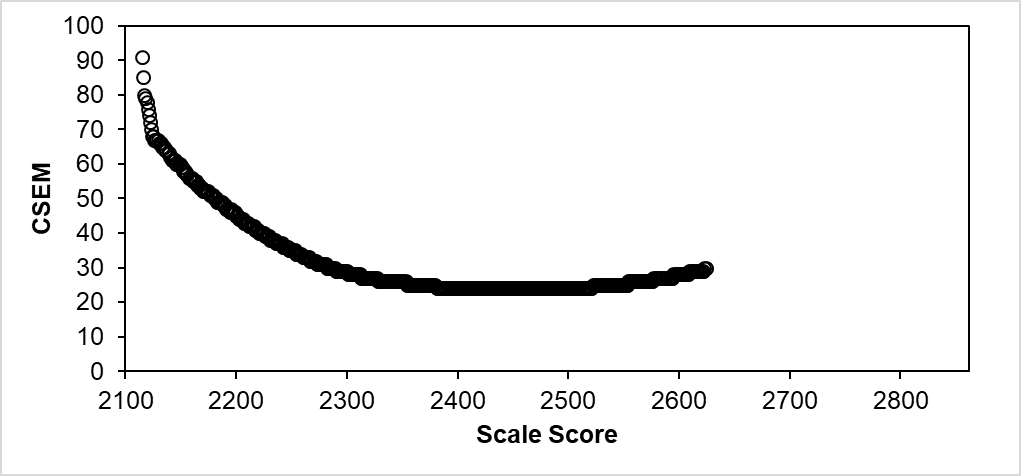


Figure 8.E. Scale score CSEM distribution plots for grade three—ELA

Table 8.E. Scale Score CSEM Distribution for Grade Three—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 54,027 | 54,027 | 68% | 68% |
| [35, 40) | 13,970 | 67,997 | 17% | 85% |
| [40, 45) | 5,419 | 73,416 | 7% | 92% |
| [45, 50) | 2,894 | 76,310 | 4% | 95% |
| [50, 55) | 1,469 | 77,779 | 2% | 97% |
| [55, 60) | 655 | 78,434 | 1% | 98% |
| [60, 65) | 539 | 78,973 | 1% | 99% |
| [65, 70) | 273 | 79,246 | 0% | 99% |
| [70, 75) | 131 | 79,377 | 0% | 99% |
| [75, 80) | 127 | 79,504 | 0% | 99% |
| [80, 85) | 118 | 79,622 | 0% | 99% |
| [85, 90) | 54 | 79,676 | 0% | 100% |
| [90, 95) | 63 | 79,739 | 0% | 100% |
| [95, 100) | 17 | 79,756 | 0% | 100% |
| [145, 150) | 273 | 80,029 | 0% | 100% |

Figure 8.E.2 for grade four ELA presents the CSEM distribution plot chart that was created using the data in table 8.E.2, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.2 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

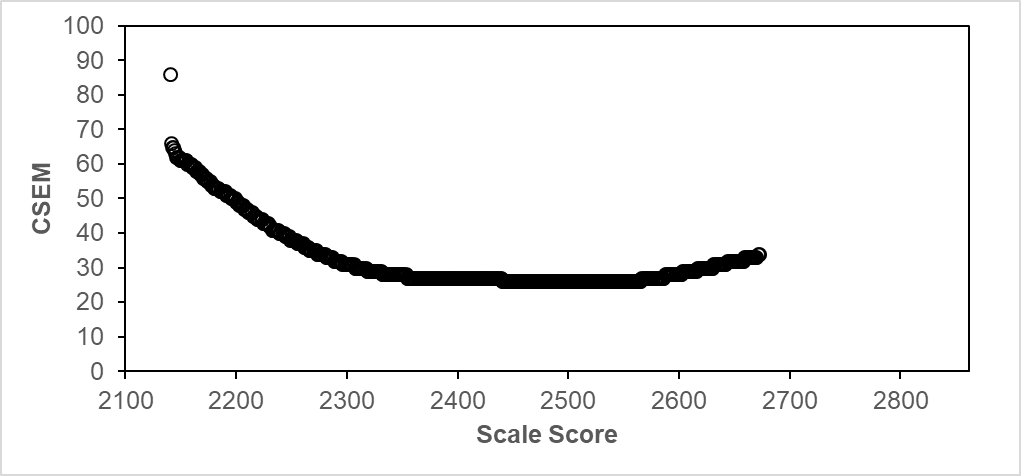


Figure 8.E. Scale score CSEM distribution plots for grade four—ELA

Table 8.E. Scale Score CSEM Distribution for Grade Four—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 34,132 | 34,132 | 41% | 41% |
| [35, 40) | 34,925 | 69,057 | 42% | 84% |
| [40, 45) | 7,633 | 76,690 | 9% | 93% |
| [45, 50) | 2,144 | 78,834 | 3% | 96% |
| [50, 55) | 1,160 | 79,994 | 1% | 97% |
| [55, 60) | 1,181 | 81,175 | 1% | 98% |
| [60, 65) | 366 | 81,541 | 0% | 99% |
| [65, 70) | 251 | 81,792 | 0% | 99% |
| [70, 75) | 152 | 81,944 | 0% | 99% |
| [75, 80) | 129 | 82,073 | 0% | 99% |
| [80, 85) | 101 | 82,174 | 0% | 100% |
| [85, 90) | 44 | 82,218 | 0% | 100% |
| [90, 95) | 19 | 82,237 | 0% | 100% |
| [95, 100) | 7 | 82,244 | 0% | 100% |
| [125, 130) | 250 | 82,494 | 0% | 100% |

Figure 8.E.3 for grade five ELA presents the CSEM distribution plot chart that was created using the data in table 8.E.3, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.3 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

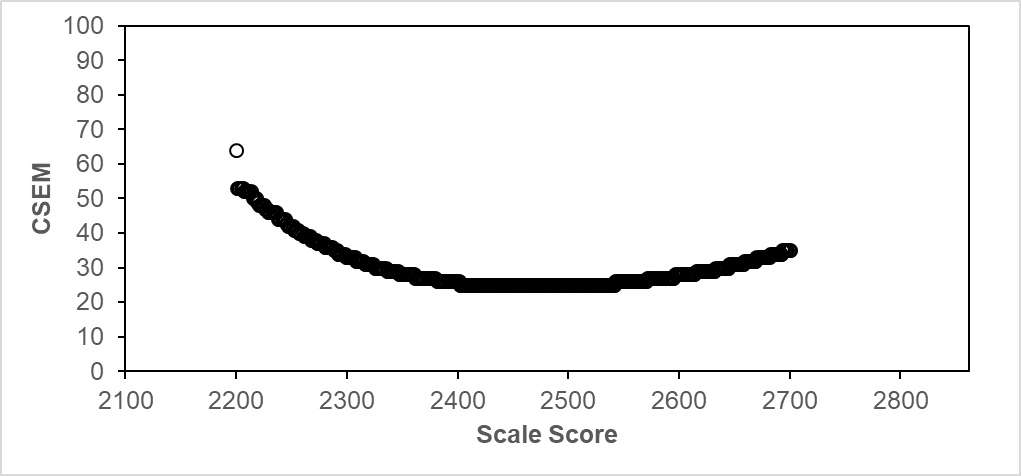


Figure 8.E. Scale score CSEM distribution plots for grade five—ELA

Table 8.E. Scale Score CSEM Distribution for Grade Five—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 51,686 | 51,686 | 61% | 61% |
| [35, 40) | 20,209 | 71,895 | 24% | 85% |
| [40, 45) | 6,764 | 78,659 | 8% | 93% |
| [45, 50) | 2,882 | 81,541 | 3% | 97% |
| [50, 55) | 754 | 82,295 | 1% | 98% |
| [55, 60) | 1,178 | 83,473 | 1% | 99% |
| [60, 65) | 184 | 83,657 | 0% | 99% |
| [65, 70) | 141 | 83,798 | 0% | 100% |
| [70, 75) | 72 | 83,870 | 0% | 100% |
| [75, 80) | 4 | 83,874 | 0% | 100% |
| [100, 105) | 290 | 84,164 | 0% | 100% |

Figure 8.E.4 for grade six ELA presents the CSEM distribution plot chart that was created using the data in table 8.E.4, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.4 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

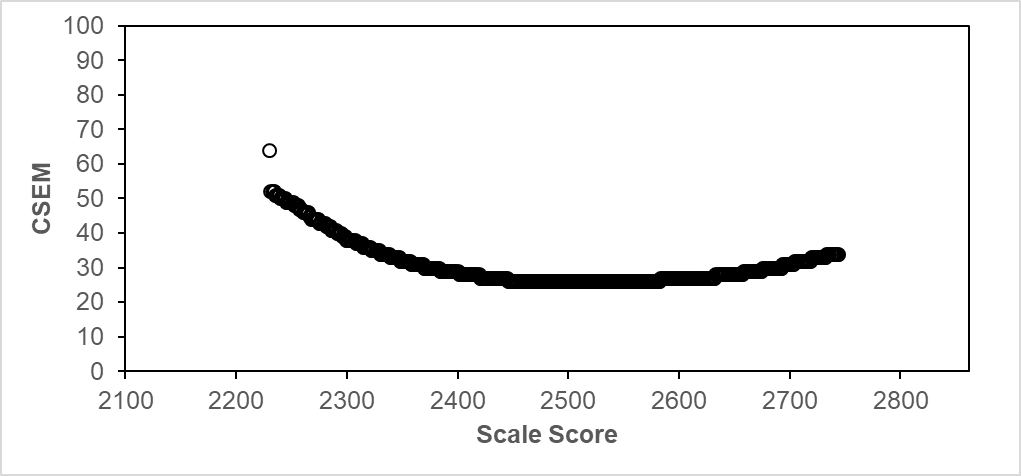


Figure 8.E. Scale score CSEM distribution plots for grade six—ELA

Table 8.E. Scale Score CSEM Distribution for Grade Six—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 59,722 | 59,722 | 68% | 68% |
| [35, 40) | 17,581 | 77,303 | 20% | 89% |
| [40, 45) | 5,535 | 82,838 | 6% | 95% |
| [45, 50) | 1,985 | 84,823 | 2% | 97% |
| [50, 55) | 1,283 | 86,106 | 1% | 99% |
| [55, 60) | 454 | 86,560 | 1% | 99% |
| [60, 65) | 263 | 86,823 | 0% | 100% |
| [65, 70) | 128 | 86,951 | 0% | 100% |
| [90, 95) | 308 | 87,259 | 0% | 100% |

Figure 8.E.5 for grade seven ELA, presents the CSEM distribution plot chart that was created using the data in table 8.E.5, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.5 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

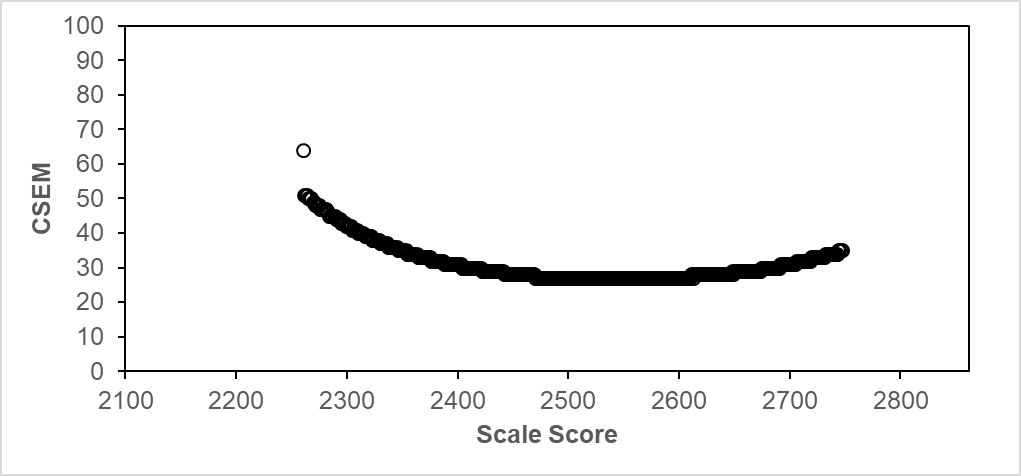


Figure 8.E. Scale score CSEM distribution plots for grade seven—ELA

Table 8.E. Scale Score CSEM Distribution for Grade Seven—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 55,153 | 55,153 | 57% | 57% |
| [35, 40) | 27,203 | 82,356 | 28% | 85% |
| [40, 45) | 7,786 | 90,142 | 8% | 93% |
| [45, 50) | 3,410 | 93,552 | 4% | 97% |
| [50, 55) | 1,145 | 94,697 | 1% | 98% |
| [55, 60) | 912 | 95,609 | 1% | 99% |
| [60, 65) | 367 | 95,976 | 0% | 99% |
| [65, 70) | 125 | 96,101 | 0% | 99% |
| [90, 95) | 697 | 96,798 | 1% | 100% |

Figure 8.E.6 for grade eight ELA presents the CSEM distribution plot chart that was created using the data in table 8.E.6, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.6 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

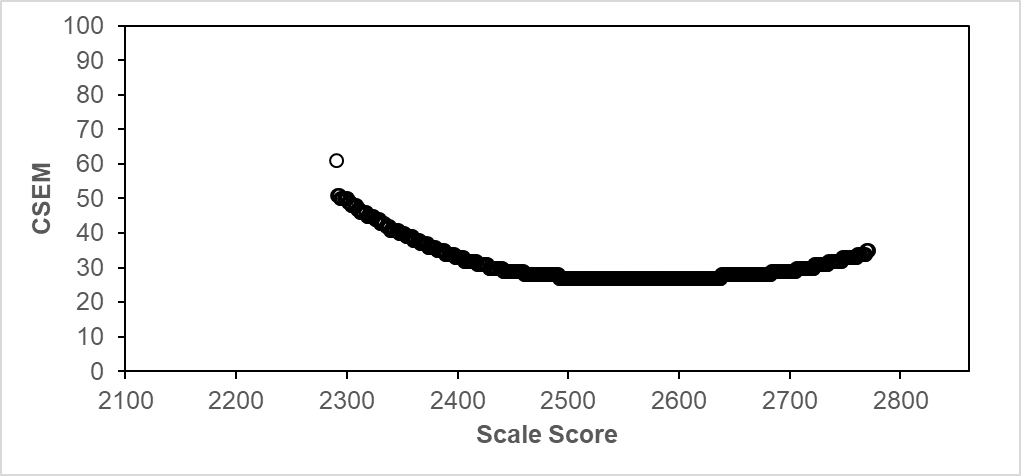


Figure 8.E. Scale score CSEM distribution plots for grade eight—ELA

Table 8.E. Scale Score CSEM Distribution for Grade Eight—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 49,158 | 49,158 | 50% | 50% |
| [35, 40) | 32,689 | 81,847 | 33% | 83% |
| [40, 45) | 7,999 | 89,846 | 8% | 91% |
| [45, 50) | 3,474 | 93,320 | 4% | 95% |
| [50, 55) | 1,854 | 95,174 | 2% | 97% |
| [55, 60) | 1,091 | 96,265 | 1% | 98% |
| [60, 65) | 519 | 96,784 | 1% | 98% |
| [65, 70) | 272 | 97,056 | 0% | 99% |
| [85, 90) | 1,241 | 98,297 | 1% | 100% |

Figure 8.E.7 for grade eleven ELA presents the CSEM distribution plot chart that was created using the data in table 8.E.7, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.7 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

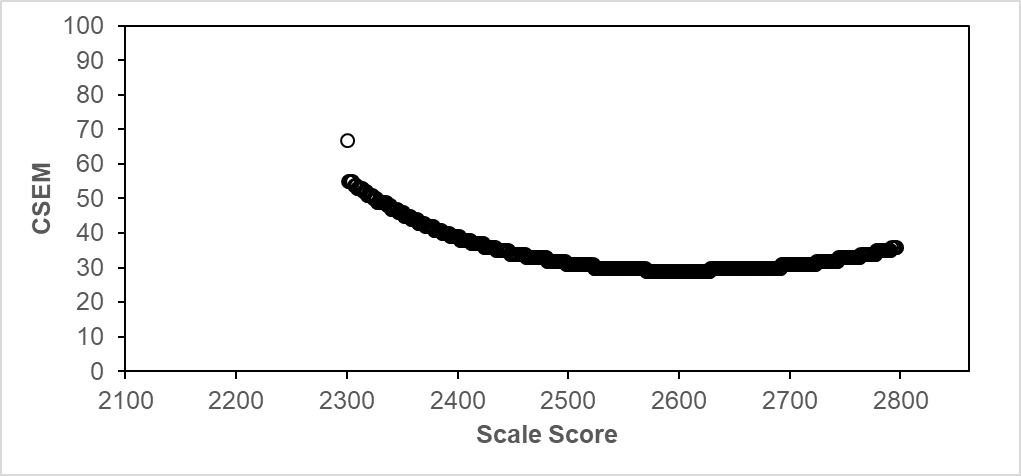


Figure 8.E. Scale score CSEM distribution plots for grade eleven—ELA

Table 8.E. Scale Score CSEM Distribution for Grade Eleven—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [35, 40) | 129,216 | 129,216 | 62% | 62% |
| [40, 45) | 43,691 | 172,907 | 21% | 83% |
| [45, 50) | 16,805 | 189,712 | 8% | 92% |
| [50, 55) | 7,949 | 197,661 | 4% | 95% |
| [55, 60) | 3,545 | 201,206 | 2% | 97% |
| [60, 65) | 1,808 | 203,014 | 1% | 98% |
| [65, 70) | 1,943 | 204,957 | 1% | 99% |
| [70, 75) | 174 | 205,131 | 0% | 99% |
| [90, 95) | 2,008 | 207,139 | 1% | 100% |

Figure 8.E.8 for grade three mathematics presents the CSEM distribution plot chart that was created using the data in table 8.E.8, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.8 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

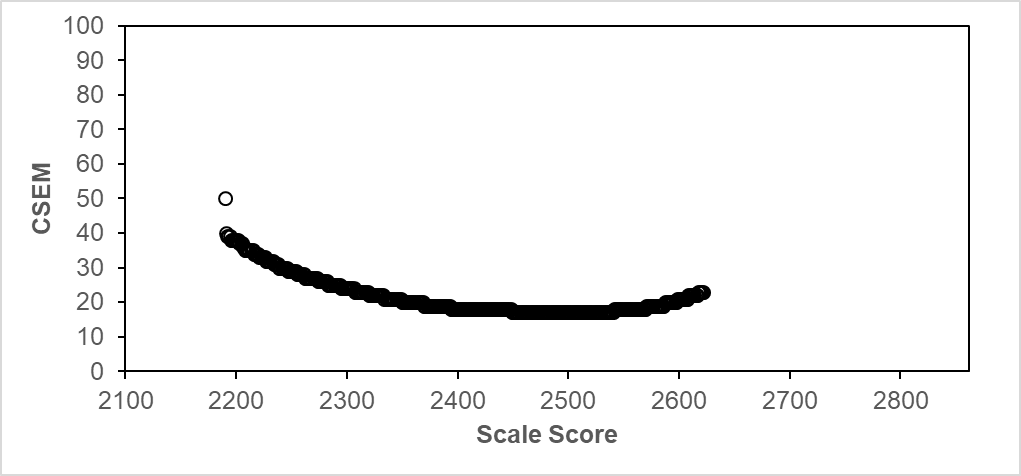


Figure 8.E. Scale score CSEM distribution plots for grade three—mathematics

Table 8.E. Scale Score CSEM Distribution for Grade Three—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [20, 25) | 43,509 | 43,509 | 51% | 51% |
| [25, 30) | 23,360 | 66,869 | 27% | 78% |
| [30, 35) | 9,060 | 75,929 | 11% | 89% |
| [35, 40) | 4,111 | 80,040 | 5% | 94% |
| [40, 45) | 2,253 | 82,293 | 3% | 97% |
| [45, 50) | 751 | 83,044 | 1% | 97% |
| [50, 55) | 526 | 83,570 | 1% | 98% |
| [55, 60) | 177 | 83,747 | 0% | 98% |
| [60, 65) | 399 | 84,146 | 0% | 99% |
| [80, 85) | 1,131 | 85,277 | 1% | 100% |

Figure 8.E.9 for grade four mathematics presents the CSEM distribution plot chart that was created using the data in table 8.E.9, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.9 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

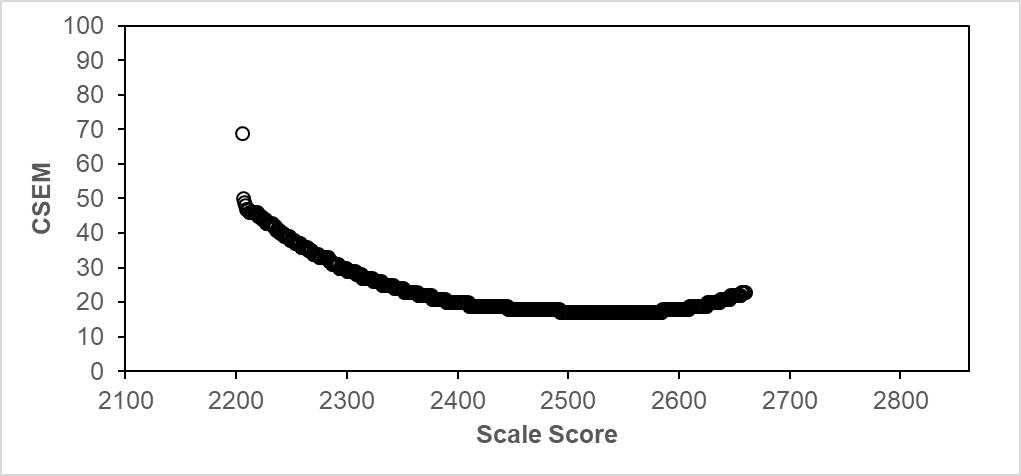


Figure 8.E. Scale score CSEM distribution plots for grade four—mathematics

Table 8.E. Scale Score CSEM Distribution for Grade Four—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [20, 25) | 36,796 | 36,796 | 42% | 42% |
| [25, 30) | 30,270 | 67,066 | 34% | 76% |
| [30, 35) | 10,113 | 77,179 | 12% | 88% |
| [35, 40) | 4,576 | 81,755 | 5% | 93% |
| [40, 45) | 2,393 | 84,148 | 3% | 96% |
| [45, 50) | 931 | 85,079 | 1% | 97% |
| [50, 55) | 711 | 85,790 | 1% | 98% |
| [55, 60) | 449 | 86,239 | 1% | 98% |
| [60, 65) | 745 | 86,984 | 1% | 99% |
| [65, 70) | 156 | 87,140 | 0% | 99% |
| [70, 75) | 4 | 87,144 | 0% | 99% |
| [120, 125) | 658 | 87,802 | 1% | 100% |

Figure 8.E.10 for grade five mathematics presents the CSEM distribution plot chart that was created using the data in table 8.E.10, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller in the middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.10 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

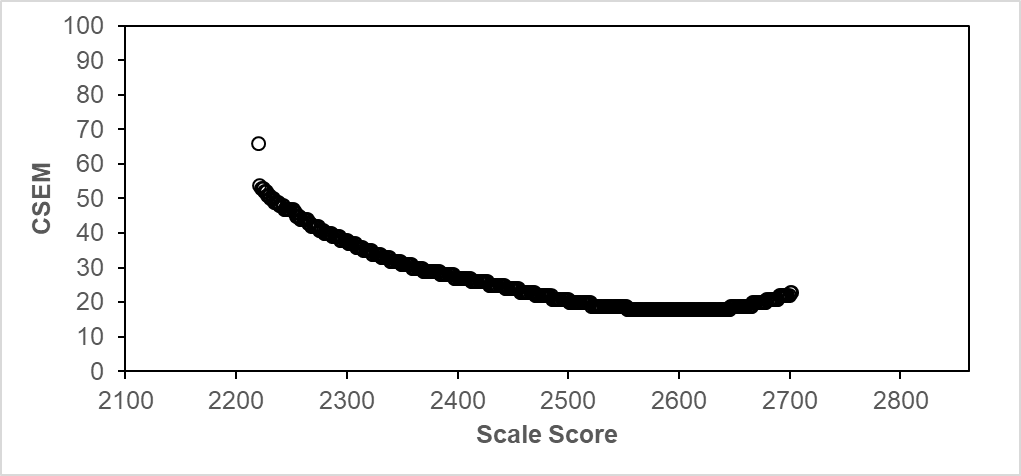


Figure 8.E. Scale score CSEM distribution plots for grade five—mathematics

Table 8.E. Scale Score CSEM Distribution for Grade Five—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [20, 25) | 14,847 | 14,847 | 17% | 17% |
| [25, 30) | 25,821 | 40,668 | 29% | 45% |
| [30, 35) | 16,974 | 57,642 | 19% | 64% |
| [35, 40) | 14,624 | 72,266 | 16% | 81% |
| [40, 45) | 7,955 | 80,221 | 9% | 90% |
| [45, 50) | 3,604 | 83,825 | 4% | 94% |
| [50, 55) | 1,899 | 85,724 | 2% | 96% |
| [55, 60) | 1,601 | 87,325 | 2% | 98% |
| [60, 65) | 694 | 88,019 | 1% | 98% |
| [65, 70) | 386 | 88,405 | 0% | 99% |
| [70, 75) | 140 | 88,545 | 0% | 99% |
| [75, 80) | 143 | 88,688 | 0% | 99% |
| [80, 85) | 13 | 88,701 | 0% | 99% |
| [110, 115) | 701 | 89,402 | 1% | 100% |

Figure 8.E.11 for grade six mathematics presents the CSEM distribution plot chart that was created using the data in table 8.E.11, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller around the upper middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.11 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

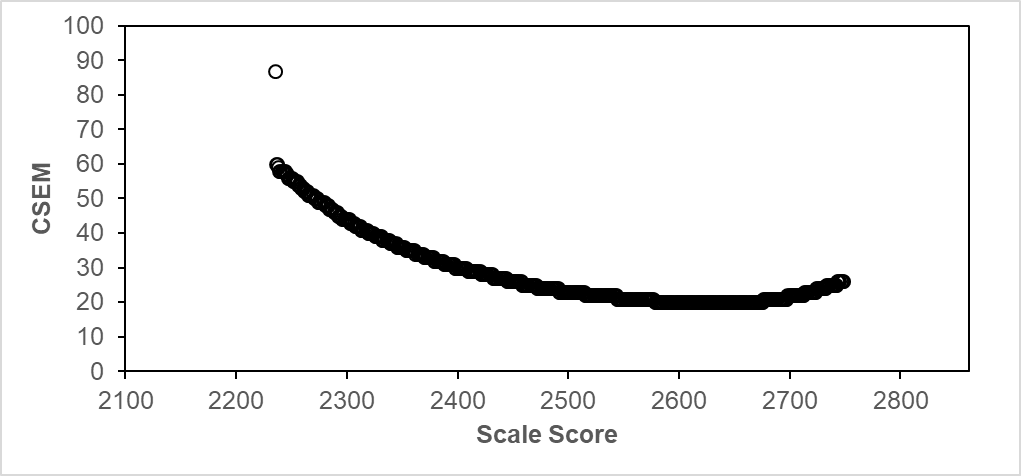


Figure 8.E. Scale score CSEM distribution plots for grade six—mathematics

Table 8.E. Scale Score CSEM Distribution for Grade Six—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [25, 30) | 29,771 | 29,771 | 34% | 34% |
| [30, 35) | 23,540 | 53,311 | 27% | 61% |
| [35, 40) | 11,738 | 65,049 | 13% | 74% |
| [40, 45) | 7,590 | 72,639 | 9% | 83% |
| [45, 50) | 4,502 | 77,141 | 5% | 88% |
| [50, 55) | 2,573 | 79,714 | 3% | 91% |
| [55, 60) | 2,038 | 81,752 | 2% | 94% |
| [60, 65) | 1,856 | 83,608 | 2% | 96% |
| [65, 70) | 961 | 84,569 | 1% | 97% |
| [70, 75) | 460 | 85,029 | 1% | 97% |
| [75, 80) | 381 | 85,410 | 0% | 98% |
| [80, 85) | 308 | 85,718 | 0% | 98% |
| [85, 90) | 157 | 85,875 | 0% | 98% |
| [140, 145) | 1,493 | 87,368 | 2% | 100% |

Figure 8.E.12 for grade seven mathematics presents the CSEM distribution plot chart that was created using the data in table 8.E.12, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller around the upper middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.12 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

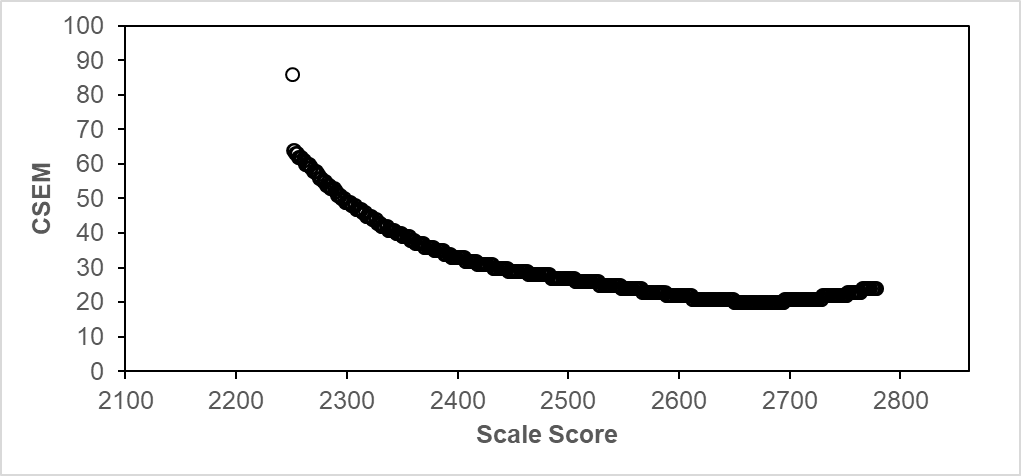


Figure 8.E. Scale score CSEM distribution plots for grade seven—mathematics

Table 8.E. Scale Score CSEM Distribution for Grade Seven—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [25, 30) | 23,101 | 23,101 | 24% | 24% |
| [30, 35) | 22,428 | 45,529 | 23% | 47% |
| [35, 40) | 19,889 | 65,418 | 21% | 68% |
| [40, 45) | 11,848 | 77,266 | 12% | 80% |
| [45, 50) | 7,154 | 84,420 | 7% | 87% |
| [50, 55) | 3,423 | 87,843 | 4% | 91% |
| [55, 60) | 2,313 | 90,156 | 2% | 93% |
| [60, 65) | 2,145 | 92,301 | 2% | 95% |
| [65, 70) | 918 | 93,219 | 1% | 96% |
| [70, 75) | 642 | 93,861 | 1% | 97% |
| [75, 80) | 577 | 94,438 | 1% | 98% |
| [80, 85) | 380 | 94,818 | 0% | 98% |
| [85, 90) | 373 | 95,191 | 0% | 98% |
| [90, 95) | 54 | 95,245 | 0% | 98% |
| [130, 135) | 1,583 | 96,828 | 2% | 100% |

Figure 8.E.13 for grade eight mathematics presents the CSEM distribution plot chart that was created using the data in table 8.E.13, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller around the upper middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.13 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

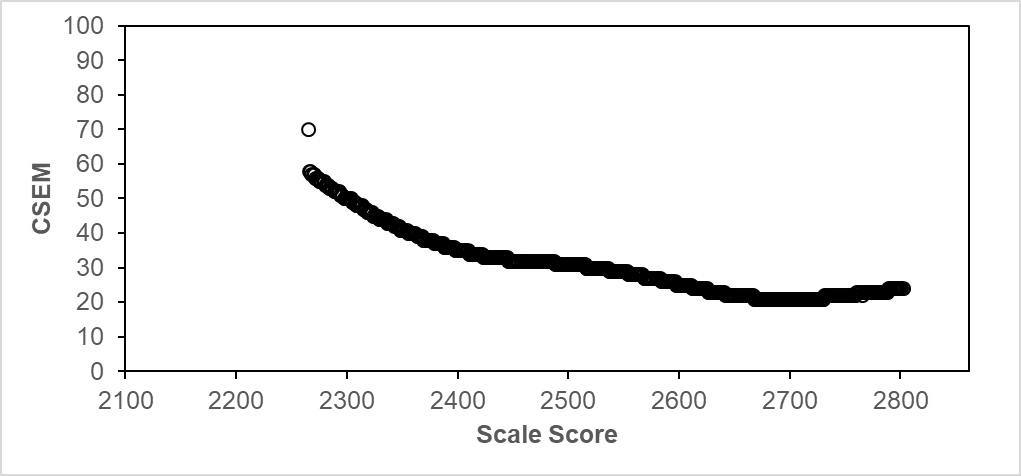


Figure 8.E. Scale score CSEM distribution plots for grade eight—mathematics

Table 8.E. Scale Score CSEM Distribution for Grade Eight—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [25, 30) | 13,453 | 13,453 | 14% | 14% |
| [30, 35) | 14,580 | 28,033 | 15% | 29% |
| [35, 40) | 14,866 | 42,899 | 15% | 44% |
| [40, 45) | 21,536 | 64,435 | 22% | 66% |
| [45, 50) | 15,259 | 79,694 | 16% | 81% |
| [50, 55) | 5,898 | 85,592 | 6% | 87% |
| [55, 60) | 3,635 | 89,227 | 4% | 91% |
| [60, 65) | 3,127 | 92,354 | 3% | 94% |
| [65, 70) | 1,167 | 93,521 | 1% | 96% |
| [70, 75) | 941 | 94,462 | 1% | 97% |
| [75, 80) | 849 | 95,311 | 1% | 97% |
| [80, 85) | 239 | 95,550 | 0% | 98% |
| [110, 115) | 2,287 | 97,837 | 2% | 100% |

Figure 8.E.14 for grade eleven mathematics presents the CSEM distribution plot chart that was created using the data in table 8.E.14, which immediately follows. Its y-axis shows the CSEM values from 0 to 100 in intervals of 10. Its x-axis shows corresponding scale score values from 2100 to 2800 in intervals of 100. The plots of the line graph form a U shape, representing the relationship between the CSEM values and the scale scores.

CSEM values are larger—closer to 100—at the low end of the scale score range (closer to 2100). As the scale scores increase from the low end, on the left, the CSEM values decrease, becoming smaller around the upper middle of the scale scores. After that, at the high end of the scale scores, on the right, the CSEM values are larger again. Figure 8.E.14 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

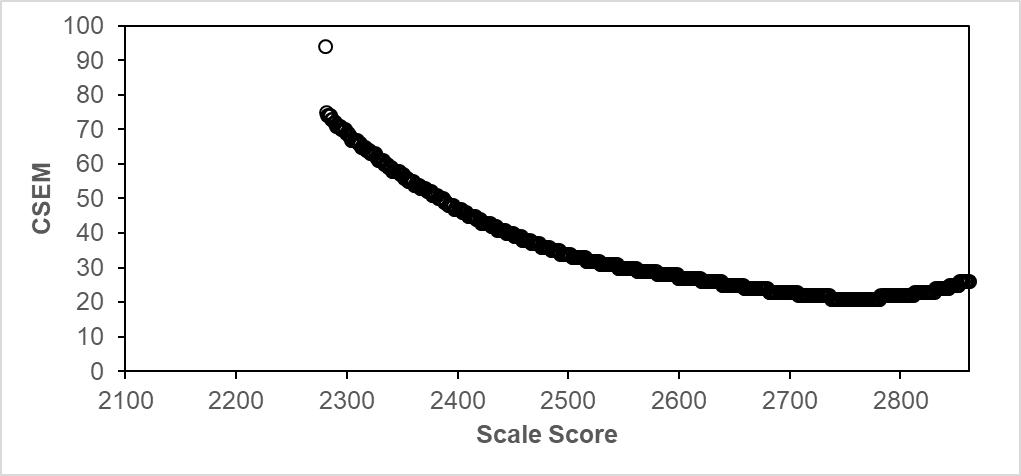


Figure 8.E. Scale score CSEM distribution plots for grade eleven—mathematics

Table 8.E. Scale Score CSEM Distribution for Grade Eleven—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [25, 30) | 19,778 | 19,778 | 10% | 10% |
| [30, 35) | 40,640 | 60,418 | 20% | 30% |
| [35, 40) | 36,861 | 97,279 | 18% | 49% |
| [40, 45) | 30,670 | 127,949 | 15% | 64% |
| [45, 50) | 21,751 | 149,700 | 11% | 75% |
| [50, 55) | 13,851 | 163,551 | 7% | 82% |
| [55, 60) | 10,914 | 174,465 | 5% | 87% |
| [60, 65) | 5,920 | 180,385 | 3% | 90% |
| [65, 70) | 4,348 | 184,733 | 2% | 92% |
| [70, 75) | 3,363 | 188,096 | 2% | 94% |
| [75, 80) | 2,122 | 190,218 | 1% | 95% |
| [80, 85) | 1,809 | 192,027 | 1% | 96% |
| [85, 90) | 1,338 | 193,365 | 1% | 97% |
| [90, 95) | 1,171 | 194,536 | 1% | 97% |
| [95, 100) | 928 | 195,464 | 0% | 98% |
| [100, 105) | 783 | 196,247 | 0% | 98% |
| [105, 110) | 209 | 196,456 | 0% | 98% |
| [145, 150) | 3,503 | 199,959 | 2% | 100% |

### Appendix 8.F: Analyses of Classification

**Notes:**

* For the tables on decision accuracy, the horizontal headers indicate values of classification by all-forms average (the true score), while the vertical headers indicate values of classification category by form taken.
* For the tables on decision consistency, the horizontal headers indicate values of classification by alternate form, while the vertical headers indicate values of classification category by form taken.

Table 8.F. Decision Accuracy for Grade Three—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2115–2366 | 0.31 | 0.05 | 0.00 | 0.00 | 0.36 |
| 2367–2431 | 0.05 | 0.14 | 0.05 | 0.00 | 0.24 |
| 2432–2489 | 0.00 | 0.05 | 0.11 | 0.03 | 0.20 |
| 2490–2650 | 0.00 | 0.00 | 0.04 | 0.16 | 0.20 |

All-forms average, estimated proportion correctly classified: total = 0.71; Standard Met and Exceeded = 0.89

Table 8.F. Decision Consistency for Grade Three—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2115–2366 | 0.29 | 0.06 | 0.01 | 0.00 | 0.36 |
| 2367–2431 | 0.07 | 0.10 | 0.06 | 0.01 | 0.24 |
| 2432–2489 | 0.01 | 0.06 | 0.08 | 0.05 | 0.20 |
| 2490–2650 | 0.00 | 0.01 | 0.04 | 0.15 | 0.20 |

Alternate form, estimated proportion consistently classified: total = 0.63; Standard Met and Exceeded = 0.85

Table 8.F. Decision Accuracy for Grade Four—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2140–2415 | 0.32 | 0.06 | 0.00 | 0.00 | 0.38 |
| 2416–2472 | 0.05 | 0.10 | 0.05 | 0.00 | 0.21 |
| 2473–2532 | 0.01 | 0.05 | 0.11 | 0.03 | 0.20 |
| 2533–2690 | 0.00 | 0.00 | 0.05 | 0.16 | 0.21 |

All-forms average, estimated proportion correctly classified: total = 0.70; Standard Met and Exceeded = 0.88

Table 8.F. Decision Consistency for Grade Four—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2140–2415 | 0.30 | 0.06 | 0.02 | 0.00 | 0.38 |
| 2416–2472 | 0.06 | 0.08 | 0.05 | 0.01 | 0.21 |
| 2473–2532 | 0.02 | 0.05 | 0.08 | 0.05 | 0.20 |
| 2533–2690 | 0.00 | 0.01 | 0.05 | 0.16 | 0.21 |

Alternate form, estimated proportion consistently classified: total = 0.62; Standard Met and Exceeded = 0.84

Table 8.F. Decision Accuracy for Grade Five—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2200–2441 | 0.28 | 0.05 | 0.00 | 0.00 | 0.33 |
| 2442–2501 | 0.04 | 0.11 | 0.05 | 0.00 | 0.20 |
| 2502–2581 | 0.00 | 0.05 | 0.16 | 0.03 | 0.25 |
| 2582–2730 | 0.00 | 0.00 | 0.04 | 0.17 | 0.21 |

All-forms average, estimated proportion correctly classified: total = 0.72; Standard Met and Exceeded = 0.89

Table 8.F. Decision Consistency for Grade Five—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2200–2441 | 0.27 | 0.05 | 0.01 | 0.00 | 0.33 |
| 2442–2501 | 0.06 | 0.08 | 0.06 | 0.01 | 0.20 |
| 2502–2581 | 0.01 | 0.06 | 0.13 | 0.05 | 0.25 |
| 2582–2730 | 0.00 | 0.00 | 0.05 | 0.16 | 0.21 |

Alternate form, estimated proportion consistently classified: total = 0.64; Standard Met and Exceeded = 0.85

Table 8.F. Decision Accuracy for Grade Six—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2230–2456 | 0.26 | 0.05 | 0.00 | 0.00 | 0.30 |
| 2457–2530 | 0.05 | 0.16 | 0.05 | 0.00 | 0.26 |
| 2531–2617 | 0.00 | 0.06 | 0.19 | 0.03 | 0.27 |
| 2618–2770 | 0.00 | 0.00 | 0.04 | 0.12 | 0.16 |

All-forms average, estimated proportion correctly classified: total = 0.73; Standard Met and Exceeded = 0.89

Table 8.F. Decision Consistency for Grade Six—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2230–2456 | 0.24 | 0.06 | 0.00 | 0.00 | 0.30 |
| 2457–2530 | 0.06 | 0.12 | 0.07 | 0.01 | 0.26 |
| 2531–2617 | 0.01 | 0.07 | 0.15 | 0.05 | 0.27 |
| 2618–2770 | 0.00 | 0.00 | 0.04 | 0.12 | 0.16 |

Alternate form, estimated proportion consistently classified: total = 0.64; Standard Met and Exceeded = 0.85

Table 8.F. Decision Accuracy for Grade Seven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2260–2478 | 0.23 | 0.04 | 0.00 | 0.00 | 0.27 |
| 2479–2551 | 0.04 | 0.13 | 0.06 | 0.00 | 0.23 |
| 2552–2648 | 0.00 | 0.05 | 0.23 | 0.04 | 0.33 |
| 2649–2810 | 0.00 | 0.00 | 0.04 | 0.13 | 0.17 |

All-forms average, estimated proportion correctly classified: Total = 0.72; Standard Met and Exceeded = 0.88

Table 8.F. Decision Consistency for Grade Seven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2260–2478 | 0.22 | 0.05 | 0.00 | 0.00 | 0.27 |
| 2479–2551 | 0.06 | 0.10 | 0.07 | 0.00 | 0.23 |
| 2552–2648 | 0.01 | 0.07 | 0.19 | 0.07 | 0.33 |
| 2649–2810 | 0.00 | 0.00 | 0.05 | 0.12 | 0.17 |

Alternate form, estimated proportion consistently classified: total = 0.63; Standard Met and Exceeded = 0.85

Table 8.F. Decision Accuracy for Grade Eight—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2290–2486 | 0.24 | 0.04 | 0.00 | 0.00 | 0.28 |
| 2487–2566 | 0.04 | 0.15 | 0.06 | 0.00 | 0.25 |
| 2567–2667 | 0.00 | 0.05 | 0.22 | 0.04 | 0.31 |
| 2668–2850 | 0.00 | 0.00 | 0.04 | 0.12 | 0.16 |

All-forms average, estimated proportion correctly classified: total = 0.73; Standard Met and Exceeded = 0.89

Table 8.F. Decision Consistency for Grade Eight—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2290–2486 | 0.23 | 0.05 | 0.00 | 0.00 | 0.28 |
| 2487–2566 | 0.06 | 0.12 | 0.07 | 0.01 | 0.25 |
| 2567–2667 | 0.01 | 0.07 | 0.18 | 0.06 | 0.31 |
| 2668–2850 | 0.00 | 0.00 | 0.05 | 0.11 | 0.16 |

Alternate form, estimated proportion consistently classified: total = 0.64; Standard Met and Exceeded = 0.85

Table 8.F. Decision Accuracy for Grade Eleven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2300–2492 | 0.16 | 0.03 | 0.00 | 0.00 | 0.19 |
| 2493–2582 | 0.03 | 0.13 | 0.05 | 0.00 | 0.21 |
| 2583–2681 | 0.00 | 0.05 | 0.19 | 0.06 | 0.30 |
| 2682–2900 | 0.00 | 0.00 | 0.04 | 0.25 | 0.29 |

All-forms average, estimated proportion correctly classified: total = 0.73; Standard Met and Exceeded = 0.89

Table 8.F. Decision Consistency for Grade Eleven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2300–2492 | 0.15 | 0.04 | 0.00 | 0.00 | 0.19 |
| 2493–2582 | 0.04 | 0.10 | 0.06 | 0.00 | 0.21 |
| 2583–2681 | 0.01 | 0.07 | 0.15 | 0.07 | 0.30 |
| 2682–2900 | 0.00 | 0.00 | 0.06 | 0.23 | 0.29 |

Alternate form, estimated proportion consistently classified: total = 0.65; Standard Met and Exceeded = 0.86

Table 8.F. Decision Accuracy for Grade Three—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2190–2380 | 0.33 | 0.04 | 0.00 | 0.00 | 0.37 |
| 2381–2435 | 0.05 | 0.13 | 0.05 | 0.00 | 0.23 |
| 2436–2500 | 0.00 | 0.05 | 0.15 | 0.03 | 0.23 |
| 2501–2660 | 0.00 | 0.00 | 0.03 | 0.13 | 0.16 |

All-forms average, estimated proportion correctly classified: total = 0.75; Standard Met and Exceeded = 0.90

Table 8.F. Decision Consistency for Grade Three—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2190–2380 | 0.32 | 0.05 | 0.00 | 0.00 | 0.37 |
| 2381–2435 | 0.06 | 0.10 | 0.06 | 0.01 | 0.23 |
| 2436–2500 | 0.01 | 0.06 | 0.12 | 0.05 | 0.23 |
| 2501–2660 | 0.00 | 0.00 | 0.04 | 0.13 | 0.16 |

Alternate form, estimated proportion consistently classified: total = 0.67; Standard Met and Exceeded = 0.86

Table 8.F. Decision Accuracy for Grade Four—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2205–2410 | 0.30 | 0.05 | 0.00 | 0.00 | 0.35 |
| 2411–2484 | 0.05 | 0.20 | 0.05 | 0.00 | 0.29 |
| 2485–2548 | 0.00 | 0.05 | 0.13 | 0.03 | 0.21 |
| 2549–2700 | 0.00 | 0.00 | 0.03 | 0.12 | 0.15 |

All-forms average, estimated proportion correctly classified: total = 0.75; Standard Met and Exceeded = 0.90

Table 8.F. Decision Consistency for Grade Four—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2205–2410 | 0.29 | 0.06 | 0.00 | 0.00 | 0.35 |
| 2411–2484 | 0.07 | 0.16 | 0.06 | 0.01 | 0.29 |
| 2485–2548 | 0.00 | 0.06 | 0.11 | 0.04 | 0.21 |
| 2549–2700 | 0.00 | 0.00 | 0.04 | 0.11 | 0.15 |

Alternate form, estimated proportion consistently classified: total = 0.66; Standard Met and Exceeded = 0.87

Table 8.F. Decision Accuracy for Grade Five—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2220–2454 | 0.38 | 0.06 | 0.00 | 0.00 | 0.44 |
| 2455–2527 | 0.05 | 0.16 | 0.04 | 0.00 | 0.26 |
| 2528–2578 | 0.00 | 0.05 | 0.07 | 0.02 | 0.14 |
| 2579–2740 | 0.00 | 0.00 | 0.04 | 0.12 | 0.16 |

All-forms average, estimated proportion correctly classified: total = 0.73; Standard Met and Exceeded = 0.90

Table 8.F. Decision Consistency for Grade Five—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2220–2454 | 0.36 | 0.07 | 0.01 | 0.00 | 0.44 |
| 2455–2527 | 0.07 | 0.12 | 0.05 | 0.01 | 0.26 |
| 2528–2578 | 0.01 | 0.05 | 0.05 | 0.04 | 0.14 |
| 2579–2740 | 0.00 | 0.01 | 0.03 | 0.12 | 0.16 |

Alternate form, estimated proportion consistently classified: total = 0.65; Standard Met and Exceeded = 0.86

Table 8.F. Decision Accuracy for Grade Six—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2235–2472 | 0.37 | 0.05 | 0.00 | 0.00 | 0.42 |
| 2473–2551 | 0.06 | 0.16 | 0.05 | 0.01 | 0.27 |
| 2552–2609 | 0.00 | 0.05 | 0.08 | 0.03 | 0.16 |
| 2610–2780 | 0.00 | 0.00 | 0.03 | 0.12 | 0.15 |

All-forms average, estimated proportion correctly classified: total = 0.73; Standard Met and Exceeded = 0.89

Table 8.F. Decision Consistency for Grade Six—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2235–2472 | 0.35 | 0.06 | 0.00 | 0.00 | 0.42 |
| 2473–2551 | 0.07 | 0.12 | 0.06 | 0.02 | 0.27 |
| 2552–2609 | 0.00 | 0.05 | 0.06 | 0.04 | 0.16 |
| 2610–2780 | 0.00 | 0.00 | 0.03 | 0.11 | 0.15 |

Alternate form, estimated proportion consistently classified: total = 0.65; Standard Met and Exceeded = 0.86

Table 8.F. Decision Accuracy for Grade Seven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2250–2483 | 0.34 | 0.05 | 0.00 | 0.00 | 0.39 |
| 2484–2566 | 0.06 | 0.15 | 0.05 | 0.01 | 0.27 |
| 2567–2634 | 0.00 | 0.05 | 0.09 | 0.03 | 0.18 |
| 2635–2820 | 0.00 | 0.00 | 0.04 | 0.13 | 0.16 |

All-forms average, estimated proportion correctly classified: total = 0.71; Standard Met and Exceeded = 0.89

Table 8.F. Decision Consistency for Grade Seven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2250–2483 | 0.32 | 0.06 | 0.01 | 0.00 | 0.39 |
| 2484–2566 | 0.07 | 0.12 | 0.06 | 0.02 | 0.27 |
| 2567–2634 | 0.01 | 0.06 | 0.07 | 0.05 | 0.18 |
| 2635–2820 | 0.00 | 0.00 | 0.04 | 0.12 | 0.16 |

Alternate form, estimated proportion consistently classified: total = 0.63; Standard Met and Exceeded = 0.85

Table 8.F. Decision Accuracy for Grade Eight—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2265–2503 | 0.41 | 0.06 | 0.00 | 0.00 | 0.46 |
| 2504–2585 | 0.06 | 0.12 | 0.04 | 0.01 | 0.23 |
| 2586–2652 | 0.00 | 0.05 | 0.07 | 0.03 | 0.14 |
| 2653–2860 | 0.00 | 0.00 | 0.04 | 0.13 | 0.17 |

All-forms average, estimated proportion correctly classified: total = 0.72; Standard Met and Exceeded = 0.90

Table 8.F. Decision Consistency for Grade Eight—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2265–2503 | 0.38 | 0.07 | 0.01 | 0.00 | 0.46 |
| 2504–2585 | 0.07 | 0.09 | 0.05 | 0.02 | 0.23 |
| 2586–2652 | 0.01 | 0.04 | 0.05 | 0.04 | 0.14 |
| 2653–2860 | 0.00 | 0.01 | 0.03 | 0.12 | 0.17 |

Alternate form, estimated proportion consistently classified: total = 0.65; Standard Met and Exceeded = 0.86

Table 8.F. Decision Accuracy for Grade Eleven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2280–2542 | 0.35 | 0.06 | 0.00 | 0.00 | 0.41 |
| 2543–2627 | 0.06 | 0.13 | 0.05 | 0.01 | 0.25 |
| 2628–2717 | 0.00 | 0.05 | 0.11 | 0.03 | 0.19 |
| 2718–2900 | 0.00 | 0.00 | 0.04 | 0.12 | 0.16 |

All-forms average, estimated proportion correctly classified: total = 0.71; Standard Met and Exceeded = 0.89

Table 8.F. Decision Consistency for Grade Eleven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2280–2542 | 0.33 | 0.07 | 0.01 | 0.00 | 0.41 |
| 2543–2627 | 0.08 | 0.10 | 0.06 | 0.01 | 0.25 |
| 2628–2717 | 0.01 | 0.05 | 0.08 | 0.04 | 0.19 |
| 2718–2900 | 0.00 | 0.00 | 0.04 | 0.11 | 0.16 |

Alternate form, estimated proportion consistently classified: total = 0.63; Standard Met and Exceeded = 0.85

### Appendix 8.G: Interrater Reliability

**Notes:**

The following is true for table 8.G.1 through table 8.G.14:

* Numbers indicate students who received valid ratings.
* Rater 2 is the backup rater.

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Three—ELA Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH945578 | 2 | 417 | 417 | 0.43 | 0.64 | 68.35 | 31.18 | 99.52 | 0.53 | 0.68 | 0.52 | 0.69 |
| N/A | **AVERAGE** | N/A | 417 | 417 | 0.43 | 0.64 | 68.35 | 31.18 | 99.52 | 0.53 | 0.68 | 0.52 | 0.69 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Four—ELA Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH945438 | 2 | 387 | 387 | 0.51 | 0.71 | 68.22 | 31.52 | 99.74 | 1.01 | 0.75 | 0.96 | 0.76 |
| 2 | VH945587 | 2 | 383 | 383 | 0.49 | 0.67 | 67.89 | 31.33 | 99.22 | 0.97 | 0.72 | 0.99 | 0.72 |
| N/A | **AVERAGE** | N/A | 385 | 385 | 0.50 | 0.69 | 68.06 | 31.43 | 99.48 | 0.99 | 0.74 | 0.98 | 0.74 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Five—ELA Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH945408 | 2 | 354 | 354 | 0.48 | 0.69 | 66.38 | 32.77 | 99.15 | 0.85 | 0.76 | 0.84 | 0.77 |
| 2 | VH945516 | 2 | 354 | 354 | 0.43 | 0.66 | 63.56 | 36.44 | 100.00 | 1.18 | 0.74 | 1.16 | 0.72 |
| N/A | **AVERAGE** | N/A | 354 | 354 | 0.46 | 0.68 | 64.97 | 34.61 | 99.58 | 1.02 | 0.75 | 1.00 | 0.75 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Six—ELA Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH296196 | 2 | 704 | 704 | 0.42 | 0.60 | 67.76 | 32.24 | 100.00 | 0.50 | 0.62 | 0.59 | 0.64 |
| 2 | VH296290 | 2 | 35 | 35 | 0.42 | 0.53 | 68.57 | 31.43 | 100.00 | 0.63 | 0.60 | 0.31 | 0.47 |
| 3 | VH296308 | 2 | 85 | 85 | 0.53 | 0.64 | 74.12 | 25.88 | 100.00 | 0.56 | 0.63 | 0.52 | 0.57 |
| 4 | VH296362 | 2 | 63 | 63 | 0.43 | 0.67 | 66.67 | 33.33 | 100.00 | 0.56 | 0.67 | 0.60 | 0.75 |
| 5 | VH296363 | 2 | 40 | 40 | 0.41 | 0.53 | 67.50 | 32.50 | 100.00 | 0.55 | 0.55 | 0.58 | 0.64 |
| 6 | VH296401 | 2 | 80 | 80 | 0.42 | 0.58 | 70.00 | 30.00 | 100.00 | 0.44 | 0.59 | 0.46 | 0.62 |
| 7 | VH297174 | 2 | 287 | 287 | 0.67 | 0.74 | 82.58 | 17.42 | 100.00 | 0.46 | 0.56 | 0.54 | 0.60 |
| 8 | VH945506 | 2 | 469 | 469 | 0.44 | 0.66 | 64.82 | 35.18 | 100.00 | 0.76 | 0.72 | 0.75 | 0.71 |
| 9 | VH945511 | 2 | 472 | 472 | 0.67 | 0.85 | 84.32 | 15.68 | 100.00 | 0.45 | 0.74 | 0.44 | 0.72 |
| 10 | VH945541 | 2 | 477 | 477 | 0.41 | 0.67 | 60.80 | 39.20 | 100.00 | 1.02 | 0.78 | 0.95 | 0.77 |
| N/A | **AVERAGE** | N/A | 271 | 271 | 0.48 | 0.65 | 70.71 | 29.29 | 100.00 | 0.59 | 0.65 | 0.57 | 0.65 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Seven—ELA Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295371 | 2 | 412 | 412 | 0.36 | 0.56 | 66.02 | 33.98 | 100.00 | 0.53 | 0.65 | 0.41 | 0.59 |
| 2 | VH296443 | 2 | 86 | 86 | 0.32 | 0.51 | 61.63 | 38.37 | 100.00 | 0.74 | 0.64 | 0.78 | 0.62 |
| 3 | VH297497 | 2 | 389 | 389 | 0.47 | 0.56 | 71.98 | 28.02 | 100.00 | 0.67 | 0.57 | 0.69 | 0.56 |
| 4 | VH297498 | 2 | 161 | 161 | 0.53 | 0.68 | 72.05 | 27.95 | 100.00 | 0.68 | 0.65 | 0.78 | 0.67 |
| 5 | VH297569 | 2 | 57 | 57 | 0.48 | 0.66 | 70.18 | 29.82 | 100.00 | 0.58 | 0.65 | 0.60 | 0.68 |
| 6 | VH297745 | 2 | 71 | 71 | 0.50 | 0.62 | 73.24 | 26.76 | 100.00 | 0.45 | 0.58 | 0.55 | 0.60 |
| 7 | VH297780 | 2 | 607 | 607 | 0.55 | 0.68 | 73.64 | 26.36 | 100.00 | 0.70 | 0.65 | 0.64 | 0.64 |
| 8 | VH297843 | 2 | 1,281 | 1,281 | 0.39 | 0.46 | 72.99 | 27.01 | 100.00 | 0.75 | 0.50 | 0.77 | 0.50 |
| 9 | VH297911 | 2 | 151 | 151 | 0.62 | 0.68 | 84.77 | 15.23 | 100.00 | 0.28 | 0.50 | 0.28 | 0.48 |
| 10 | VH945433 | 2 | 425 | 425 | 0.56 | 0.79 | 74.59 | 25.41 | 100.00 | 0.62 | 0.79 | 0.60 | 0.77 |
| 11 | VH945458 | 2 | 407 | 407 | 0.51 | 0.73 | 68.80 | 31.20 | 100.00 | 0.74 | 0.78 | 0.76 | 0.74 |
| 12 | VH945572 | 2 | 409 | 409 | 0.49 | 0.74 | 67.97 | 32.03 | 100.00 | 0.74 | 0.77 | 0.73 | 0.80 |
| N/A | **AVERAGE** | N/A | 371 | 371 | 0.48 | 0.64 | 71.49 | 28.51 | 100.00 | 0.62 | 0.64 | 0.63 | 0.64 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Eight—ELA Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH279694 | 2 | 265 | 265 | 0.67 | 0.78 | 86.42 | 13.58 | 100.00 | 0.32 | 0.55 | 0.31 | 0.55 |
| 2 | VH279901 | 2 | 224 | 224 | 0.61 | 0.68 | 79.46 | 20.54 | 100.00 | 0.51 | 0.58 | 0.48 | 0.55 |
| 3 | VH279904 | 2 | 278 | 278 | 0.43 | 0.57 | 69.78 | 30.22 | 100.00 | 0.48 | 0.61 | 0.47 | 0.59 |
| 4 | VH279941 | 2 | 236 | 236 | 0.44 | 0.62 | 70.34 | 29.66 | 100.00 | 0.50 | 0.66 | 0.44 | 0.59 |
| 5 | VH280258 | 2 | 316 | 316 | 0.41 | 0.51 | 68.67 | 31.33 | 100.00 | 0.53 | 0.58 | 0.55 | 0.55 |
| 6 | VH280491 | 2 | 224 | 224 | 0.53 | 0.70 | 70.98 | 29.02 | 100.00 | 0.78 | 0.68 | 0.75 | 0.70 |
| 7 | VH280503 | 2 | 1,086 | 1,086 | 0.49 | 0.67 | 81.77 | 18.23 | 100.00 | 0.28 | 0.55 | 0.23 | 0.50 |
| 8 | VH280622 | 2 | 222 | 222 | 0.33 | 0.50 | 63.51 | 36.49 | 100.00 | 0.52 | 0.60 | 0.50 | 0.61 |
| 9 | VH280847 | 2 | 294 | 294 | 0.45 | 0.54 | 71.77 | 28.23 | 100.00 | 0.71 | 0.57 | 0.71 | 0.54 |
| 10 | VH281583 | 2 | 128 | 128 | 0.49 | 0.62 | 71.09 | 28.91 | 100.00 | 0.59 | 0.61 | 0.63 | 0.63 |
| 11 | VH295517 | 2 | 412 | 412 | 0.31 | 0.53 | 60.68 | 39.32 | 100.00 | 0.66 | 0.66 | 0.51 | 0.61 |
| 12 | VH295622 | 2 | 402 | 402 | 0.37 | 0.61 | 65.42 | 34.58 | 100.00 | 0.59 | 0.70 | 0.43 | 0.62 |
| 13 | VH945496 | 2 | 405 | 405 | 0.52 | 0.76 | 68.40 | 31.60 | 100.00 | 0.90 | 0.82 | 0.92 | 0.82 |
| N/A | **AVERAGE** | N/A | 346 | 346 | 0.47 | 0.62 | 71.41 | 28.59 | 100.00 | 0.57 | 0.63 | 0.53 | 0.60 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Eleven—ELA Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH289614 | 2 | 85 | 85 | 0.41 | 0.58 | 62.35 | 35.29 | 97.65 | 1.01 | 0.72 | 0.96 | 0.75 |
| 2 | VH289740 | 2 | 55 | 55 | 0.43 | 0.52 | 67.27 | 30.91 | 98.18 | 0.58 | 0.57 | 0.67 | 0.70 |
| 3 | VH289859 | 2 | 220 | 220 | 0.49 | 0.65 | 73.18 | 26.82 | 100.00 | 0.45 | 0.60 | 0.48 | 0.64 |
| 4 | VH289908 | 2 | 159 | 159 | 0.44 | 0.66 | 64.15 | 35.22 | 99.37 | 0.79 | 0.75 | 0.79 | 0.74 |
| 5 | VH290189 | 2 | 128 | 128 | 0.45 | 0.63 | 67.19 | 32.81 | 100.00 | 0.80 | 0.61 | 0.94 | 0.71 |
| 6 | VH290291 | 2 | 456 | 456 | 0.53 | 0.73 | 70.39 | 28.73 | 99.12 | 0.73 | 0.78 | 0.74 | 0.77 |
| 7 | VH290296 | 2 | 810 | 810 | 0.53 | 0.73 | 68.77 | 30.99 | 99.75 | 0.94 | 0.78 | 0.95 | 0.77 |
| 8 | VH290311 | 2 | 840 | 840 | 0.40 | 0.60 | 64.52 | 34.88 | 99.40 | 0.62 | 0.69 | 0.60 | 0.67 |
| 9 | VH290312 | 2 | 867 | 867 | 0.42 | 0.59 | 69.90 | 29.18 | 99.08 | 0.45 | 0.63 | 0.47 | 0.63 |
| 10 | VH290314 | 2 | 379 | 379 | 0.54 | 0.74 | 72.03 | 27.70 | 99.74 | 0.65 | 0.73 | 0.68 | 0.74 |
| 11 | VH290372 | 2 | 56 | 56 | 0.29 | 0.48 | 57.14 | 41.07 | 98.21 | 0.79 | 0.73 | 0.70 | 0.63 |
| 12 | VH290515 | 2 | 340 | 340 | 0.33 | 0.57 | 59.41 | 40.59 | 100.00 | 0.98 | 0.70 | 0.91 | 0.68 |
| 13 | VH290571 | 2 | 58 | 58 | 0.63 | 0.75 | 77.59 | 22.41 | 100.00 | 0.91 | 0.66 | 1.00 | 0.70 |
| 14 | VH290631 | 2 | 199 | 199 | 0.42 | 0.63 | 63.82 | 35.68 | 99.50 | 0.80 | 0.72 | 0.74 | 0.70 |
| 15 | VH290839 | 2 | 164 | 164 | 0.65 | 0.83 | 78.05 | 21.95 | 100.00 | 0.73 | 0.80 | 0.78 | 0.81 |
| 16 | VH290895 | 2 | 260 | 260 | 0.50 | 0.65 | 68.85 | 28.85 | 97.69 | 0.74 | 0.72 | 0.75 | 0.75 |
| 17 | VH291113 | 2 | 214 | 214 | 0.60 | 0.76 | 77.10 | 22.90 | 100.00 | 0.58 | 0.69 | 0.55 | 0.70 |

Table 8.G.7 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 18 | VH291175 | 2 | 266 | 266 | 0.67 | 0.81 | 80.45 | 19.55 | 100.00 | 0.61 | 0.72 | 0.58 | 0.71 |
| 19 | VH291428 | 2 | 221 | 221 | 0.62 | 0.77 | 76.47 | 23.08 | 99.55 | 0.69 | 0.75 | 0.68 | 0.72 |
| 20 | VH292261 | 2 | 56 | 56 | 0.54 | 0.71 | 83.93 | 16.07 | 100.00 | 0.25 | 0.51 | 0.27 | 0.56 |
| 21 | VH292448 | 2 | 42 | 42 | 0.53 | 0.69 | 71.43 | 28.57 | 100.00 | 0.76 | 0.69 | 0.67 | 0.69 |
| 22 | VH292883 | 2 | 247 | 247 | 0.60 | 0.75 | 75.71 | 24.29 | 100.00 | 0.66 | 0.70 | 0.66 | 0.71 |
| 23 | VH293122 | 2 | 228 | 228 | 0.51 | 0.68 | 71.93 | 28.07 | 100.00 | 0.59 | 0.65 | 0.59 | 0.67 |
| 24 | VH293313 | 2 | 202 | 202 | 0.49 | 0.67 | 72.77 | 27.23 | 100.00 | 0.50 | 0.65 | 0.47 | 0.64 |
| 25 | VH293402 | 2 | 216 | 216 | 0.54 | 0.70 | 72.22 | 27.78 | 100.00 | 0.64 | 0.66 | 0.75 | 0.71 |
| 26 | VH293639 | 2 | 95 | 95 | 0.54 | 0.71 | 73.68 | 26.32 | 100.00 | 0.61 | 0.70 | 0.52 | 0.65 |
| 27 | VH293796 | 2 | 256 | 256 | 0.60 | 0.75 | 75.00 | 25.00 | 100.00 | 0.84 | 0.69 | 0.85 | 0.72 |
| 28 | VH295362 | 2 | 891 | 891 | 0.52 | 0.74 | 68.46 | 31.43 | 99.89 | 1.09 | 0.78 | 1.07 | 0.78 |
| 29 | VH648736 | 2 | 106 | 106 | 0.51 | 0.69 | 69.81 | 30.19 | 100.00 | 0.81 | 0.72 | 0.83 | 0.68 |
| 30 | VH945418 | 2 | 907 | 907 | 0.57 | 0.76 | 71.55 | 28.22 | 99.78 | 1.16 | 0.78 | 1.15 | 0.79 |
| 31 | VH945468 | 2 | 898 | 898 | 0.49 | 0.71 | 66.93 | 32.74 | 99.67 | 1.11 | 0.77 | 1.12 | 0.76 |
| 32 | VH945521 | 2 | 893 | 893 | 0.48 | 0.71 | 65.40 | 34.49 | 99.89 | 0.99 | 0.78 | 1.00 | 0.77 |
| 33 | VH945536 | 2 | 912 | 912 | 0.50 | 0.71 | 66.67 | 31.91 | 98.57 | 0.93 | 0.80 | 0.95 | 0.80 |
| N/A | **AVERAGE** | N/A | 355 | 355 | 0.51 | 0.69 | 70.43 | 29.12 | 99.55 | 0.75 | 0.70 | 0.75 | 0.71 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Three—Mathematics Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299059 | 3 | 270 | 270 | 0.90 | 0.98 | 93.70 | 6.30 | 100.00 | 0.97 | 1.16 | 0.98 | 1.14 |
| 2 | VH299379 | 3 | 295 | 295 | 0.82 | 0.95 | 88.47 | 11.53 | 100.00 | 0.80 | 1.04 | 0.83 | 1.03 |
| 3 | VH299561 | 2 | 255 | 255 | 0.96 | 0.98 | 99.61 | 0.39 | 100.00 | 0.07 | 0.29 | 0.07 | 0.30 |
| 4 | VH299646 | 2 | 526 | 526 | 0.95 | 0.98 | 97.53 | 2.47 | 100.00 | 0.61 | 0.85 | 0.62 | 0.86 |
| 5 | VH299647 | 2 | 487 | 487 | 0.82 | 0.88 | 91.38 | 8.62 | 100.00 | 0.38 | 0.58 | 0.38 | 0.60 |
| 6 | VH299783 | 2 | 522 | 522 | 0.94 | 0.98 | 96.93 | 3.07 | 100.00 | 0.52 | 0.81 | 0.53 | 0.81 |
| 7 | VH299784 | 2 | 487 | 487 | 0.87 | 0.91 | 94.05 | 5.95 | 100.00 | 0.38 | 0.59 | 0.37 | 0.60 |
| 8 | VH299999 | 3 | 277 | 277 | 0.82 | 0.95 | 89.17 | 10.83 | 100.00 | 0.77 | 1.03 | 0.81 | 1.02 |
| 9 | VH300362 | 3 | 385 | 385 | 0.86 | 0.96 | 89.61 | 10.39 | 100.00 | 1.28 | 1.18 | 1.30 | 1.17 |
| 10 | VH945769 | 2 | 503 | 503 | 0.84 | 0.94 | 91.45 | 8.55 | 100.00 | 0.66 | 0.87 | 0.64 | 0.87 |
| 11 | VH945776 | 2 | 493 | 493 | 0.86 | 0.95 | 92.49 | 7.51 | 100.00 | 0.71 | 0.90 | 0.71 | 0.89 |
| 12 | VH945777 | 3 | 509 | 509 | 0.85 | 0.95 | 90.77 | 9.23 | 100.00 | 0.73 | 0.93 | 0.72 | 0.91 |
| 13 | VH945866 | 2 | 522 | 522 | 0.91 | 0.97 | 95.21 | 4.79 | 100.00 | 0.72 | 0.92 | 0.71 | 0.93 |
| 14 | VH945870 | 2 | 133 | 133 | 0.98 | 0.98 | 99.25 | 0.75 | 100.00 | 0.25 | 0.45 | 0.26 | 0.45 |
| 15 | VH945872 | 2 | 526 | 526 | 0.93 | 0.98 | 96.58 | 3.42 | 100.00 | 0.66 | 0.92 | 0.66 | 0.92 |
| N/A | **AVERAGE** | N/A | 413 | 413 | 0.89 | 0.96 | 93.75 | 6.25 | 100.00 | 0.63 | 0.83 | 0.64 | 0.83 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Four—Mathematics Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299103 | 2 | 389 | 389 | 0.68 | 0.84 | 89.97 | 10.03 | 100.00 | 0.27 | 0.58 | 0.23 | 0.54 |
| 2 | VH299105 | 2 | 380 | 380 | 0.56 | 0.77 | 93.95 | 6.05 | 100.00 | 0.10 | 0.37 | 0.09 | 0.36 |
| 3 | VH299107 | 3 | 388 | 388 | 0.83 | 0.94 | 89.18 | 10.82 | 100.00 | 0.82 | 0.97 | 0.83 | 0.99 |
| 4 | VH299112 | 2 | 397 | 397 | 0.86 | 0.93 | 94.71 | 5.29 | 100.00 | 0.33 | 0.63 | 0.31 | 0.61 |
| 5 | VH299113 | 2 | 372 | 372 | 0.79 | 0.90 | 88.98 | 11.02 | 100.00 | 0.53 | 0.74 | 0.53 | 0.76 |
| 6 | VH299115 | 2 | 399 | 399 | 0.78 | 0.89 | 92.23 | 7.77 | 100.00 | 0.30 | 0.62 | 0.28 | 0.59 |
| 7 | VH299181 | 2 | 411 | 411 | 0.72 | 0.87 | 85.16 | 14.84 | 100.00 | 0.55 | 0.75 | 0.50 | 0.74 |
| 8 | VH299339 | 2 | 398 | 398 | 0.69 | 0.86 | 88.69 | 11.31 | 100.00 | 0.30 | 0.62 | 0.31 | 0.63 |
| 9 | VH299340 | 2 | 394 | 394 | 0.88 | 0.96 | 96.19 | 3.81 | 100.00 | 0.31 | 0.68 | 0.31 | 0.68 |
| 10 | VH299342 | 3 | 396 | 396 | 0.87 | 0.96 | 91.16 | 8.84 | 100.00 | 0.93 | 0.99 | 0.93 | 1.00 |
| 11 | VH299402 | 2 | 427 | 427 | 1.00 | 1.00 | 100.00 | 0.00 | 100.00 | 0.17 | 0.54 | 0.17 | 0.54 |
| 12 | VH299474 | 1 | 405 | 405 | 0.74 | 0.74 | 89.63 | 10.37 | 100.00 | 0.28 | 0.45 | 0.27 | 0.44 |
| 13 | VH299476 | 1 | 398 | 398 | 0.57 | 0.57 | 89.95 | 10.05 | 100.00 | 0.12 | 0.33 | 0.15 | 0.36 |
| 14 | VH299477 | 2 | 118 | 118 | 0.91 | 0.95 | 96.61 | 3.39 | 100.00 | 0.31 | 0.61 | 0.32 | 0.61 |
| 15 | VH299504 | 1 | 424 | 424 | 0.63 | 0.63 | 88.44 | 11.56 | 100.00 | 0.19 | 0.39 | 0.21 | 0.40 |
| 16 | VH299512 | 2 | 423 | 423 | 0.86 | 0.94 | 93.38 | 6.62 | 100.00 | 0.45 | 0.75 | 0.45 | 0.75 |
| 17 | VH300007 | 2 | 411 | 411 | 0.95 | 0.98 | 99.03 | 0.97 | 100.00 | 0.17 | 0.54 | 0.18 | 0.54 |
| 18 | VH300009 | 2 | 393 | 393 | 0.97 | 0.99 | 98.73 | 1.27 | 100.00 | 0.62 | 0.91 | 0.61 | 0.91 |
| 19 | VH300038 | 2 | 410 | 410 | 0.69 | 0.80 | 85.37 | 14.63 | 100.00 | 0.41 | 0.61 | 0.36 | 0.59 |
| 20 | VH300096 | 1 | 406 | 406 | 0.64 | 0.64 | 86.45 | 13.55 | 100.00 | 0.25 | 0.43 | 0.26 | 0.44 |

Table 8.G.9 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH300098 | 1 | 398 | 398 | 0.56 | 0.56 | 88.69 | 11.31 | 100.00 | 0.14 | 0.34 | 0.16 | 0.37 |
| 22 | VH300099 | 2 | 110 | 110 | 0.97 | 0.98 | 99.09 | 0.91 | 100.00 | 0.20 | 0.47 | 0.19 | 0.46 |
| 23 | VH300188 | 2 | 408 | 408 | 0.52 | 0.71 | 83.82 | 16.18 | 100.00 | 0.26 | 0.54 | 0.23 | 0.51 |
| 24 | VH300210 | 2 | 400 | 400 | 0.72 | 0.87 | 93.50 | 6.50 | 100.00 | 0.19 | 0.51 | 0.18 | 0.51 |
| 25 | VH300211 | 1 | 386 | 386 | 0.67 | 0.83 | 94.30 | 5.70 | 100.00 | 0.12 | 0.40 | 0.12 | 0.41 |
| 26 | VH300213 | 3 | 401 | 401 | 0.80 | 0.94 | 88.03 | 11.97 | 100.00 | 0.68 | 0.95 | 0.73 | 1.00 |
| 27 | VH300217 | 1 | 418 | 418 | 0.62 | 0.62 | 88.52 | 11.48 | 100.00 | 0.16 | 0.37 | 0.21 | 0.41 |
| 28 | VH300290 | 2 | 376 | 376 | 0.78 | 0.89 | 88.56 | 11.44 | 100.00 | 0.50 | 0.73 | 0.48 | 0.71 |
| 29 | VH945833 | 1 | 396 | 396 | 0.54 | 0.54 | 89.65 | 10.35 | 100.00 | 0.13 | 0.34 | 0.13 | 0.34 |
| 30 | VH945835 | 2 | 388 | 388 | 0.71 | 0.88 | 82.47 | 17.53 | 100.00 | 0.72 | 0.86 | 0.74 | 0.88 |
| 31 | VH945840 | 1 | 395 | 395 | 0.90 | 0.90 | 95.19 | 4.81 | 100.00 | 0.51 | 0.50 | 0.51 | 0.50 |
| 32 | VH945841 | 2 | 402 | 402 | 0.76 | 0.88 | 87.06 | 12.94 | 100.00 | 0.50 | 0.72 | 0.53 | 0.74 |
| 33 | VH945876 | 2 | 415 | 415 | 0.91 | 0.97 | 94.70 | 5.30 | 100.00 | 0.93 | 0.93 | 0.91 | 0.92 |
| 34 | VH945878 | 2 | 419 | 419 | 0.83 | 0.89 | 94.03 | 5.97 | 100.00 | 0.24 | 0.51 | 0.25 | 0.52 |
| N/A | **AVERAGE** | N/A | 384 | 384 | 0.76 | 0.84 | 91.34 | 8.66 | 100.00 | 0.37 | 0.61 | 0.37 | 0.61 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Five—Mathematics Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299044 | 2 | 467 | 467 | 0.64 | 0.82 | 91.01 | 8.99 | 100.00 | 0.17 | 0.48 | 0.21 | 0.52 |
| 2 | VH299046 | 2 | 471 | 471 | 0.90 | 0.97 | 96.18 | 3.82 | 100.00 | 0.45 | 0.81 | 0.46 | 0.83 |
| 3 | VH299082 | 2 | 440 | 440 | 0.56 | 0.66 | 83.86 | 16.14 | 100.00 | 0.25 | 0.49 | 0.27 | 0.49 |
| 4 | VH299169 | 2 | 438 | 438 | 0.92 | 0.98 | 96.12 | 3.88 | 100.00 | 0.63 | 0.90 | 0.63 | 0.89 |
| 5 | VH299188 | 3 | 163 | 163 | 1.00 | 1.00 | 100.00 | 0.00 | 100.00 | 0.12 | 0.36 | 0.12 | 0.36 |
| 6 | VH299411 | 2 | 433 | 433 | 0.46 | 0.56 | 84.99 | 15.01 | 100.00 | 0.19 | 0.42 | 0.17 | 0.41 |
| 7 | VH299597 | 2 | 466 | 466 | 0.62 | 0.81 | 87.77 | 12.23 | 100.00 | 0.24 | 0.57 | 0.26 | 0.56 |
| 8 | VH299687 | 2 | 446 | 446 | 0.57 | 0.76 | 90.13 | 9.87 | 100.00 | 0.15 | 0.47 | 0.17 | 0.44 |
| 9 | VH299699 | 2 | 419 | 419 | 0.94 | 0.98 | 97.85 | 2.15 | 100.00 | 0.46 | 0.83 | 0.45 | 0.82 |
| 10 | VH299861 | 2 | 477 | 477 | 0.94 | 0.98 | 97.27 | 2.73 | 100.00 | 0.50 | 0.79 | 0.49 | 0.78 |
| 11 | VH299891 | 3 | 445 | 445 | 0.75 | 0.92 | 88.76 | 11.24 | 100.00 | 0.48 | 0.85 | 0.43 | 0.83 |
| 12 | VH299987 | 2 | 441 | 441 | 0.53 | 0.64 | 85.03 | 14.97 | 100.00 | 0.22 | 0.46 | 0.20 | 0.44 |
| 13 | VH299995 | 2 | 474 | 474 | 0.91 | 0.94 | 94.51 | 5.49 | 100.00 | 0.72 | 0.66 | 0.72 | 0.65 |
| 14 | VH300307 | 2 | 449 | 449 | 0.59 | 0.75 | 91.76 | 8.24 | 100.00 | 0.13 | 0.41 | 0.14 | 0.41 |
| 15 | VH300309 | 2 | 449 | 449 | 0.91 | 0.97 | 95.99 | 4.01 | 100.00 | 0.55 | 0.85 | 0.54 | 0.85 |
| 16 | VH945787 | 2 | 467 | 467 | 0.84 | 0.94 | 91.43 | 8.57 | 100.00 | 0.63 | 0.84 | 0.63 | 0.85 |
| 17 | VH945788 | 2 | 459 | 459 | 0.81 | 0.89 | 89.11 | 10.89 | 100.00 | 0.56 | 0.69 | 0.57 | 0.73 |
| 18 | VH945808 | 1 | 433 | 433 | 0.75 | 0.75 | 94.00 | 6.00 | 100.00 | 0.15 | 0.36 | 0.12 | 0.33 |
| 19 | VH945809 | 2 | 164 | 164 | 0.90 | 0.90 | 98.17 | 1.83 | 100.00 | 0.10 | 0.30 | 0.12 | 0.32 |
| N/A | **AVERAGE** | N/A | 421 | 421 | 0.77 | 0.85 | 92.31 | 7.69 | 100.00 | 0.35 | 0.61 | 0.35 | 0.61 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Six—Mathematics Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299287 | 2 | 399 | 399 | 0.40 | 0.57 | 80.20 | 17.79 | 97.99 | 0.24 | 0.53 | 0.27 | 0.56 |
| 2 | VH299456 | 2 | 530 | 530 | 0.44 | 0.64 | 79.81 | 17.55 | 97.36 | 0.33 | 0.65 | 0.27 | 0.59 |
| 3 | VH299486 | 2 | 531 | 531 | 0.45 | 0.64 | 81.54 | 16.76 | 98.31 | 0.27 | 0.58 | 0.26 | 0.57 |
| 4 | VH299586 | 2 | 527 | 527 | 0.56 | 0.69 | 77.80 | 20.11 | 97.91 | 0.44 | 0.68 | 0.47 | 0.68 |
| 5 | VH299792 | 2 | 529 | 529 | 0.66 | 0.74 | 86.96 | 12.48 | 99.43 | 0.29 | 0.55 | 0.28 | 0.52 |
| 6 | VH300198 | 2 | 516 | 516 | 0.47 | 0.65 | 77.91 | 19.57 | 97.48 | 0.39 | 0.68 | 0.32 | 0.61 |
| 7 | VH300206 | 2 | 524 | 524 | 0.67 | 0.74 | 88.17 | 11.26 | 99.43 | 0.25 | 0.51 | 0.26 | 0.51 |
| 8 | VH300397 | 2 | 517 | 517 | 0.55 | 0.69 | 79.11 | 18.38 | 97.49 | 0.41 | 0.68 | 0.41 | 0.68 |
| 9 | VH945796 | 2 | 533 | 533 | 0.63 | 0.79 | 88.74 | 10.69 | 99.44 | 0.25 | 0.57 | 0.23 | 0.54 |
| 10 | VH945801 | 2 | 552 | 552 | 0.53 | 0.74 | 77.36 | 21.74 | 99.09 | 0.44 | 0.69 | 0.45 | 0.70 |
| 11 | VH945802 | 2 | 551 | 551 | 0.58 | 0.77 | 88.57 | 11.07 | 99.64 | 0.21 | 0.53 | 0.21 | 0.51 |
| N/A | **AVERAGE** | N/A | 519 | 519 | 0.54 | 0.70 | 82.38 | 16.13 | 98.51 | 0.32 | 0.60 | 0.31 | 0.59 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Seven—Mathematics Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299227 | 2 | 602 | 602 | 0.43 | 0.57 | 85.05 | 14.45 | 99.50 | 0.17 | 0.43 | 0.18 | 0.44 |
| 2 | VH299242 | 2 | 612 | 612 | 0.68 | 0.72 | 83.33 | 16.34 | 99.67 | 0.46 | 0.56 | 0.46 | 0.57 |
| 3 | VH299249 | 1 | 609 | 609 | 0.85 | 0.85 | 96.72 | 3.28 | 100.00 | 0.12 | 0.32 | 0.13 | 0.34 |
| 4 | VH299574 | 1 | 546 | 546 | 0.48 | 0.68 | 91.39 | 7.88 | 99.27 | 0.13 | 0.45 | 0.11 | 0.37 |
| 5 | VH299577 | 2 | 606 | 606 | 0.74 | 0.80 | 85.97 | 13.86 | 99.83 | 0.54 | 0.61 | 0.55 | 0.59 |
| 6 | VH299927 | 2 | 582 | 582 | 0.51 | 0.61 | 86.08 | 13.23 | 99.31 | 0.20 | 0.47 | 0.18 | 0.44 |
| 7 | VH300092 | 1 | 599 | 599 | 0.82 | 0.82 | 96.66 | 3.34 | 100.00 | 0.11 | 0.31 | 0.10 | 0.30 |
| N/A | **AVERAGE** | N/A | 594 | 594 | 0.64 | 0.72 | 89.31 | 10.34 | 99.65 | 0.25 | 0.45 | 0.24 | 0.44 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Eight—Mathematics Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299088 | 1 | 614 | 614 | 0.56 | 0.56 | 87.30 | 12.70 | 100.00 | 0.16 | 0.37 | 0.18 | 0.39 |
| 2 | VH299325 | 2 | 591 | 591 | 0.54 | 0.71 | 87.82 | 11.34 | 99.15 | 0.20 | 0.51 | 0.20 | 0.51 |
| 3 | VH299742 | 1 | 593 | 593 | 0.62 | 0.62 | 86.68 | 13.32 | 100.00 | 0.24 | 0.43 | 0.22 | 0.42 |
| 4 | VH299811 | 2 | 578 | 578 | 0.68 | 0.81 | 91.52 | 7.96 | 99.48 | 0.21 | 0.53 | 0.19 | 0.50 |
| 5 | VH299902 | 1 | 594 | 594 | 0.57 | 0.57 | 84.68 | 15.32 | 100.00 | 0.22 | 0.41 | 0.25 | 0.43 |
| 6 | VH300056 | 1 | 592 | 592 | 0.61 | 0.61 | 84.29 | 15.71 | 100.00 | 0.27 | 0.44 | 0.28 | 0.45 |
| 7 | VH300081 | 2 | 581 | 581 | 0.54 | 0.72 | 87.26 | 11.88 | 99.14 | 0.21 | 0.52 | 0.22 | 0.53 |
| 8 | VH300247 | 2 | 580 | 580 | 0.60 | 0.78 | 85.69 | 12.93 | 98.62 | 0.30 | 0.63 | 0.33 | 0.66 |
| 9 | VH300337 | 2 | 581 | 581 | 0.68 | 0.82 | 89.85 | 9.81 | 99.66 | 0.25 | 0.57 | 0.25 | 0.55 |
| 10 | VH300340 | 1 | 583 | 583 | 0.63 | 0.63 | 86.79 | 13.21 | 100.00 | 0.24 | 0.43 | 0.23 | 0.42 |
| 11 | VH945762 | 1 | 622 | 622 | 0.48 | 0.48 | 91.00 | 9.00 | 100.00 | 0.09 | 0.29 | 0.10 | 0.30 |
| 12 | VH945765 | 2 | 593 | 593 | 0.48 | 0.66 | 88.70 | 9.61 | 98.31 | 0.17 | 0.48 | 0.17 | 0.50 |
| 13 | VH945783 | 2 | 593 | 593 | 0.60 | 0.78 | 78.92 | 20.57 | 99.49 | 0.51 | 0.72 | 0.47 | 0.70 |
| N/A | **AVERAGE** | N/A | 592 | 592 | 0.58 | 0.67 | 86.96 | 12.57 | 99.53 | 0.24 | 0.49 | 0.24 | 0.49 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Eleven—Mathematics Short Answer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299384 | 1 | 1,461 | 1,461 | 0.74 | 0.74 | 93.43 | 6.57 | 100.00 | 0.15 | 0.36 | 0.15 | 0.36 |
| 2 | VH945815 | 3 | 1,504 | 1,504 | 0.54 | 0.82 | 77.19 | 20.61 | 97.81 | 0.56 | 0.92 | 0.51 | 0.89 |
| N/A | **AVERAGE** | N/A | 1,483 | 1,483 | 0.64 | 0.78 | 85.31 | 13.59 | 98.91 | 0.36 | 0.64 | 0.33 | 0.63 |

**Notes and Legend:**

The following is true for table 8.G.15 through table 8.G.21:

* Numbers indicate students who received valid ratings.
* Rater 2 is the backup rater.
* Dimension types are as follows:
* Organization/Purpose (POR)
* Development/Elaboration (DEV)
* Evidence/Elaboration (EEL)
* Convention (COV)

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Three—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295418 | 2 | COV | 321 | 321 | 0.49 | 0.69 | 67.29 | 32.71 | 100.00 | 0.86 | 0.74 | 0.85 | 0.72 |
| 2 | VH295561 | 2 | COV | 238 | 238 | 0.38 | 0.60 | 60.50 | 38.24 | 98.74 | 0.88 | 0.74 | 0.85 | 0.72 |
| 3 | VH295670 | 2 | COV | 276 | 276 | 0.47 | 0.66 | 66.30 | 33.33 | 99.64 | 1.00 | 0.73 | 0.99 | 0.71 |
| 4 | VH295713 | 2 | COV | 246 | 246 | 0.31 | 0.53 | 56.50 | 42.28 | 98.78 | 0.90 | 0.73 | 0.86 | 0.69 |
| 5 | VH295950 | 2 | COV | 147 | 147 | 0.40 | 0.61 | 63.27 | 36.73 | 100.00 | 0.85 | 0.66 | 0.80 | 0.71 |
| 6 | VH295997 | 2 | COV | 311 | 311 | 0.41 | 0.62 | 63.02 | 36.66 | 99.68 | 0.82 | 0.72 | 0.85 | 0.69 |
| 7 | VH296068 | 2 | COV | 152 | 152 | 0.43 | 0.64 | 63.82 | 35.53 | 99.34 | 0.97 | 0.73 | 0.95 | 0.74 |
| 8 | VH945444 | 2 | COV | 221 | 221 | 0.41 | 0.58 | 63.35 | 35.29 | 98.64 | 0.87 | 0.70 | 0.90 | 0.70 |
| 9 | VH945454 | 2 | COV | 331 | 331 | 0.46 | 0.68 | 65.26 | 34.74 | 100.00 | 0.88 | 0.73 | 0.86 | 0.74 |
| 10 | VH945558 | 2 | COV | 324 | 324 | 0.42 | 0.64 | 62.96 | 36.73 | 99.69 | 0.88 | 0.73 | 0.89 | 0.72 |

Table 8.G.15 *(continuation one)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 11 | VH945568 | 2 | COV | 144 | 144 | 0.52 | 0.71 | 69.44 | 30.56 | 100.00 | 0.82 | 0.74 | 0.81 | 0.71 |
| 12 | VH945579 | 2 | COV | 326 | 326 | 0.52 | 0.71 | 69.02 | 30.98 | 100.00 | 0.91 | 0.75 | 0.91 | 0.73 |
| 13 | VH295561 | 4 | DVE | 238 | 238 | 0.58 | 0.75 | 74.79 | 24.79 | 99.58 | 1.64 | 0.72 | 1.64 | 0.74 |
| 14 | VH295950 | 4 | DVE | 147 | 147 | 0.49 | 0.73 | 70.75 | 29.25 | 100.00 | 1.59 | 0.77 | 1.57 | 0.71 |
| 15 | VH296068 | 4 | DVE | 152 | 152 | 0.59 | 0.80 | 76.32 | 23.68 | 100.00 | 1.57 | 0.72 | 1.62 | 0.80 |
| 16 | VH945444 | 4 | DVE | 221 | 221 | 0.47 | 0.69 | 68.33 | 31.67 | 100.00 | 1.69 | 0.69 | 1.69 | 0.74 |
| 17 | VH945568 | 4 | DVE | 144 | 144 | 0.65 | 0.77 | 79.86 | 19.44 | 99.31 | 1.53 | 0.67 | 1.65 | 0.72 |
| 18 | VH295418 | 3 | EEL | 321 | 321 | 0.56 | 0.72 | 76.64 | 23.05 | 99.69 | 1.50 | 0.66 | 1.47 | 0.66 |
| 19 | VH295670 | 3 | EEL | 276 | 276 | 0.45 | 0.66 | 68.48 | 31.52 | 100.00 | 1.63 | 0.69 | 1.61 | 0.66 |
| 20 | VH295713 | 3 | EEL | 246 | 246 | 0.52 | 0.69 | 76.02 | 23.98 | 100.00 | 1.46 | 0.64 | 1.40 | 0.60 |
| 21 | VH295997 | 3 | EEL | 311 | 311 | 0.49 | 0.62 | 75.24 | 24.76 | 100.00 | 1.42 | 0.58 | 1.40 | 0.57 |
| 22 | VH945454 | 4 | EEL | 331 | 331 | 0.49 | 0.70 | 71.00 | 28.70 | 99.70 | 1.57 | 0.72 | 1.58 | 0.69 |
| 23 | VH945558 | 4 | EEL | 324 | 324 | 0.43 | 0.60 | 68.52 | 31.17 | 99.69 | 1.52 | 0.63 | 1.54 | 0.65 |
| 24 | VH945579 | 4 | EEL | 326 | 326 | 0.50 | 0.70 | 72.70 | 26.99 | 99.69 | 1.52 | 0.71 | 1.51 | 0.66 |
| 25 | VH295418 | 3 | POR | 321 | 321 | 0.53 | 0.71 | 75.08 | 24.61 | 99.69 | 1.50 | 0.68 | 1.49 | 0.67 |
| 26 | VH295561 | 4 | POR | 238 | 238 | 0.60 | 0.77 | 76.05 | 23.95 | 100.00 | 1.66 | 0.71 | 1.68 | 0.73 |
| 27 | VH295670 | 3 | POR | 276 | 276 | 0.50 | 0.68 | 71.01 | 28.99 | 100.00 | 1.63 | 0.69 | 1.60 | 0.66 |
| 28 | VH295713 | 3 | POR | 246 | 246 | 0.49 | 0.66 | 73.98 | 26.02 | 100.00 | 1.48 | 0.64 | 1.43 | 0.59 |
| 29 | VH295950 | 4 | POR | 147 | 147 | 0.52 | 0.75 | 72.11 | 27.89 | 100.00 | 1.61 | 0.78 | 1.58 | 0.70 |
| 30 | VH295997 | 3 | POR | 311 | 311 | 0.53 | 0.66 | 77.17 | 22.83 | 100.00 | 1.41 | 0.58 | 1.41 | 0.58 |

Table 8.G.15 *(continuation two)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 31 | VH296068 | 4 | POR | 152 | 152 | 0.53 | 0.73 | 72.37 | 26.32 | 98.68 | 1.60 | 0.74 | 1.64 | 0.79 |
| 32 | VH945444 | 4 | POR | 221 | 221 | 0.42 | 0.65 | 65.16 | 34.84 | 100.00 | 1.73 | 0.70 | 1.76 | 0.71 |
| 33 | VH945454 | 4 | POR | 331 | 331 | 0.52 | 0.70 | 72.81 | 26.89 | 99.70 | 1.56 | 0.70 | 1.57 | 0.68 |
| 34 | VH945558 | 4 | POR | 324 | 324 | 0.47 | 0.65 | 70.68 | 29.01 | 99.69 | 1.52 | 0.66 | 1.52 | 0.66 |
| 35 | VH945568 | 4 | POR | 144 | 144 | 0.63 | 0.75 | 78.47 | 20.83 | 99.31 | 1.55 | 0.66 | 1.66 | 0.71 |
| 36 | VH945579 | 4 | POR | 326 | 326 | 0.56 | 0.74 | 76.69 | 23.31 | 100.00 | 1.49 | 0.69 | 1.48 | 0.65 |
| N/A | **AVERAGE** | N/A | N/A | 253 | 253 | 0.49 | 0.68 | 70.30 | 29.40 | 99.70 | 1.33 | 0.70 | 1.33 | 0.69 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Four—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295258 | 2 | COV | 232 | 232 | 0.38 | 0.58 | 62.50 | 37.07 | 99.57 | 1.06 | 0.71 | 1.06 | 0.66 |
| 2 | VH295351 | 2 | COV | 250 | 250 | 0.48 | 0.68 | 67.20 | 32.80 | 100.00 | 1.11 | 0.71 | 1.07 | 0.73 |
| 3 | VH295426 | 2 | COV | 278 | 278 | 0.47 | 0.64 | 67.27 | 32.01 | 99.28 | 0.96 | 0.71 | 0.95 | 0.69 |
| 4 | VH295459 | 2 | COV | 294 | 294 | 0.38 | 0.61 | 61.22 | 38.44 | 99.66 | 1.07 | 0.72 | 1.07 | 0.71 |
| 5 | VH295493 | 2 | COV | 295 | 295 | 0.44 | 0.65 | 64.07 | 35.59 | 99.66 | 1.02 | 0.73 | 1.04 | 0.73 |
| 6 | VH295522 | 2 | COV | 301 | 301 | 0.46 | 0.65 | 66.11 | 33.55 | 99.67 | 1.06 | 0.72 | 0.99 | 0.69 |
| 7 | VH295631 | 2 | COV | 206 | 206 | 0.44 | 0.62 | 64.56 | 34.47 | 99.03 | 1.04 | 0.70 | 1.05 | 0.72 |
| 8 | VH295644 | 2 | COV | 204 | 204 | 0.47 | 0.65 | 67.65 | 32.35 | 100.00 | 1.09 | 0.67 | 1.11 | 0.69 |
| 9 | VH295707 | 2 | COV | 260 | 260 | 0.43 | 0.61 | 65.77 | 33.85 | 99.62 | 0.92 | 0.68 | 0.93 | 0.67 |
| 10 | VH295731 | 2 | COV | 297 | 297 | 0.33 | 0.57 | 57.58 | 41.75 | 99.33 | 1.00 | 0.73 | 1.00 | 0.71 |
| 11 | VH295775 | 2 | COV | 235 | 235 | 0.36 | 0.62 | 59.15 | 40.85 | 100.00 | 1.06 | 0.73 | 1.11 | 0.73 |
| 12 | VH295781 | 2 | COV | 219 | 219 | 0.51 | 0.69 | 68.49 | 30.59 | 99.09 | 1.05 | 0.74 | 1.03 | 0.74 |
| 13 | VH295787 | 2 | COV | 293 | 293 | 0.45 | 0.65 | 65.19 | 34.47 | 99.66 | 1.09 | 0.72 | 1.10 | 0.72 |
| 14 | VH295858 | 2 | COV | 183 | 183 | 0.50 | 0.67 | 68.85 | 30.60 | 99.45 | 1.19 | 0.71 | 1.19 | 0.70 |
| 15 | VH295865 | 2 | COV | 223 | 223 | 0.47 | 0.69 | 65.92 | 34.08 | 100.00 | 1.05 | 0.73 | 0.97 | 0.74 |
| 16 | VH295892 | 2 | COV | 280 | 280 | 0.39 | 0.62 | 62.14 | 37.86 | 100.00 | 1.04 | 0.71 | 1.03 | 0.71 |
| 17 | VH295956 | 2 | COV | 308 | 308 | 0.49 | 0.68 | 67.21 | 32.14 | 99.35 | 1.01 | 0.74 | 1.05 | 0.74 |
| 18 | VH945429 | 2 | COV | 149 | 149 | 0.39 | 0.61 | 62.42 | 37.58 | 100.00 | 1.21 | 0.68 | 1.20 | 0.72 |
| 19 | VH945439 | 2 | COV | 307 | 307 | 0.34 | 0.58 | 58.96 | 41.04 | 100.00 | 1.06 | 0.70 | 1.07 | 0.69 |
| 20 | VH945563 | 2 | COV | 311 | 311 | 0.37 | 0.61 | 60.77 | 39.23 | 100.00 | 0.99 | 0.69 | 1.01 | 0.73 |

Table 8.G.16 *(continuation one)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH945588 | 2 | COV | 171 | 171 | 0.39 | 0.61 | 62.57 | 37.43 | 100.00 | 1.15 | 0.71 | 1.13 | 0.69 |
| 22 | VH295258 | 4 | DVE | 232 | 232 | 0.44 | 0.70 | 63.79 | 35.34 | 99.14 | 2.06 | 0.83 | 2.10 | 0.79 |
| 23 | VH295351 | 4 | DVE | 250 | 250 | 0.57 | 0.81 | 71.60 | 28.40 | 100.00 | 1.92 | 0.87 | 1.91 | 0.86 |
| 24 | VH295644 | 4 | DVE | 204 | 204 | 0.46 | 0.72 | 64.22 | 35.29 | 99.51 | 1.88 | 0.80 | 1.92 | 0.83 |
| 25 | VH295775 | 4 | DVE | 235 | 235 | 0.49 | 0.77 | 65.53 | 34.47 | 100.00 | 1.99 | 0.85 | 1.98 | 0.90 |
| 26 | VH295781 | 4 | DVE | 219 | 219 | 0.53 | 0.75 | 69.86 | 29.68 | 99.54 | 1.91 | 0.80 | 1.90 | 0.79 |
| 27 | VH295858 | 4 | DVE | 183 | 183 | 0.50 | 0.80 | 65.03 | 34.97 | 100.00 | 2.09 | 0.95 | 2.10 | 0.90 |
| 28 | VH295865 | 4 | DVE | 223 | 223 | 0.59 | 0.81 | 72.20 | 27.35 | 99.55 | 1.92 | 0.89 | 1.96 | 0.87 |
| 29 | VH945429 | 4 | DVE | 149 | 149 | 0.56 | 0.79 | 69.80 | 29.53 | 99.33 | 2.15 | 0.90 | 2.15 | 0.94 |
| 30 | VH945588 | 4 | DVE | 171 | 171 | 0.48 | 0.75 | 64.91 | 34.50 | 99.42 | 2.15 | 0.87 | 2.15 | 0.85 |
| 31 | VH295426 | 4 | EEL | 278 | 278 | 0.47 | 0.69 | 68.71 | 30.94 | 99.64 | 1.65 | 0.73 | 1.64 | 0.71 |
| 32 | VH295459 | 3 | EEL | 294 | 294 | 0.52 | 0.75 | 69.39 | 30.61 | 100.00 | 1.74 | 0.81 | 1.74 | 0.76 |
| 33 | VH295493 | 4 | EEL | 295 | 295 | 0.41 | 0.69 | 64.07 | 34.92 | 98.98 | 1.71 | 0.82 | 1.66 | 0.77 |
| 34 | VH295522 | 4 | EEL | 301 | 301 | 0.53 | 0.75 | 70.10 | 29.90 | 100.00 | 1.80 | 0.80 | 1.77 | 0.76 |
| 35 | VH295631 | 3 | EEL | 206 | 206 | 0.46 | 0.71 | 65.53 | 33.98 | 99.51 | 1.76 | 0.77 | 1.82 | 0.81 |
| 36 | VH295707 | 3 | EEL | 260 | 260 | 0.43 | 0.67 | 66.15 | 33.85 | 100.00 | 1.62 | 0.74 | 1.64 | 0.70 |
| 37 | VH295731 | 4 | EEL | 297 | 297 | 0.50 | 0.73 | 69.02 | 30.64 | 99.66 | 1.67 | 0.73 | 1.72 | 0.79 |
| 38 | VH295787 | 3 | EEL | 293 | 293 | 0.47 | 0.75 | 63.82 | 35.84 | 99.66 | 1.93 | 0.85 | 1.96 | 0.91 |
| 39 | VH295892 | 4 | EEL | 280 | 280 | 0.46 | 0.73 | 66.07 | 33.57 | 99.64 | 1.76 | 0.83 | 1.79 | 0.79 |

Table 8.G.16 *(continuation two)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 40 | VH295956 | 3 | EEL | 308 | 308 | 0.49 | 0.74 | 67.86 | 31.49 | 99.35 | 1.74 | 0.81 | 1.76 | 0.80 |
| 41 | VH945439 | 4 | EEL | 307 | 307 | 0.45 | 0.67 | 66.45 | 33.22 | 99.67 | 1.70 | 0.69 | 1.76 | 0.75 |
| 42 | VH945563 | 4 | EEL | 311 | 311 | 0.46 | 0.65 | 67.20 | 32.15 | 99.36 | 1.67 | 0.71 | 1.66 | 0.70 |
| 43 | VH295258 | 4 | POR | 232 | 232 | 0.49 | 0.72 | 66.81 | 32.33 | 99.14 | 2.07 | 0.82 | 2.12 | 0.78 |
| 44 | VH295351 | 4 | POR | 250 | 250 | 0.58 | 0.81 | 72.00 | 28.00 | 100.00 | 1.93 | 0.86 | 1.97 | 0.85 |
| 45 | VH295426 | 4 | POR | 278 | 278 | 0.49 | 0.69 | 70.14 | 29.14 | 99.28 | 1.65 | 0.74 | 1.62 | 0.68 |
| 46 | VH295459 | 3 | POR | 294 | 294 | 0.52 | 0.74 | 69.39 | 30.61 | 100.00 | 1.81 | 0.79 | 1.79 | 0.74 |
| 47 | VH295493 | 4 | POR | 295 | 295 | 0.52 | 0.74 | 70.51 | 28.81 | 99.32 | 1.72 | 0.79 | 1.65 | 0.75 |
| 48 | VH295522 | 4 | POR | 301 | 301 | 0.51 | 0.74 | 69.10 | 30.90 | 100.00 | 1.74 | 0.78 | 1.75 | 0.77 |
| 49 | VH295631 | 3 | POR | 206 | 206 | 0.49 | 0.76 | 67.48 | 32.52 | 100.00 | 1.81 | 0.82 | 1.83 | 0.84 |
| 50 | VH295644 | 4 | POR | 204 | 204 | 0.41 | 0.70 | 61.27 | 38.73 | 100.00 | 1.89 | 0.79 | 1.93 | 0.81 |
| 51 | VH295707 | 3 | POR | 260 | 260 | 0.51 | 0.70 | 70.38 | 29.23 | 99.62 | 1.67 | 0.75 | 1.70 | 0.68 |
| 52 | VH295731 | 4 | POR | 297 | 297 | 0.44 | 0.68 | 65.99 | 33.33 | 99.33 | 1.64 | 0.75 | 1.69 | 0.75 |
| 53 | VH295775 | 4 | POR | 235 | 235 | 0.49 | 0.75 | 65.53 | 34.04 | 99.57 | 2.03 | 0.83 | 1.98 | 0.87 |
| 54 | VH295781 | 4 | POR | 219 | 219 | 0.54 | 0.76 | 70.32 | 29.68 | 100.00 | 1.92 | 0.79 | 1.91 | 0.78 |
| 55 | VH295787 | 3 | POR | 293 | 293 | 0.41 | 0.74 | 60.41 | 39.25 | 99.66 | 1.92 | 0.86 | 1.90 | 0.90 |

Table 8.G.16 *(continuation three)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 56 | VH295858 | 4 | POR | 183 | 183 | 0.50 | 0.79 | 65.03 | 34.97 | 100.00 | 2.13 | 0.96 | 2.13 | 0.89 |
| 57 | VH295865 | 4 | POR | 223 | 223 | 0.59 | 0.81 | 72.20 | 27.35 | 99.55 | 1.94 | 0.90 | 1.95 | 0.85 |
| 58 | VH295892 | 4 | POR | 280 | 280 | 0.52 | 0.76 | 70.00 | 29.64 | 99.64 | 1.73 | 0.81 | 1.78 | 0.80 |
| 59 | VH295956 | 3 | POR | 308 | 308 | 0.51 | 0.74 | 69.16 | 30.19 | 99.35 | 1.73 | 0.82 | 1.73 | 0.78 |
| 60 | VH945429 | 4 | POR | 149 | 149 | 0.51 | 0.76 | 66.44 | 32.89 | 99.33 | 2.17 | 0.88 | 2.17 | 0.93 |
| 61 | VH945439 | 4 | POR | 307 | 307 | 0.48 | 0.67 | 68.08 | 31.60 | 99.67 | 1.69 | 0.69 | 1.73 | 0.74 |
| 62 | VH945563 | 4 | POR | 311 | 311 | 0.46 | 0.67 | 67.20 | 32.48 | 99.68 | 1.66 | 0.72 | 1.65 | 0.71 |
| 63 | VH945588 | 4 | POR | 171 | 171 | 0.45 | 0.75 | 61.99 | 38.01 | 100.00 | 2.18 | 0.88 | 2.17 | 0.88 |
| N/A | **AVERAGE** | N/A | N/A | 252 | 252 | 0.47 | 0.70 | 66.29 | 33.37 | 99.66 | 1.59 | 0.78 | 1.59 | 0.77 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Five—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295215 | 2 | COV | 258 | 258 | 0.38 | 0.64 | 60.47 | 39.15 | 99.61 | 1.18 | 0.75 | 1.23 | 0.75 |
| 2 | VH295230 | 2 | COV | 321 | 321 | 0.43 | 0.64 | 63.55 | 35.83 | 99.38 | 1.19 | 0.73 | 1.19 | 0.73 |
| 3 | VH295238 | 2 | COV | 310 | 310 | 0.35 | 0.59 | 60.00 | 40.00 | 100.00 | 1.26 | 0.70 | 1.31 | 0.70 |
| 4 | VH295406 | 2 | COV | 316 | 316 | 0.52 | 0.70 | 69.94 | 29.75 | 99.68 | 1.16 | 0.71 | 1.12 | 0.73 |
| 5 | VH295431 | 2 | COV | 314 | 314 | 0.42 | 0.63 | 64.01 | 35.67 | 99.68 | 1.27 | 0.69 | 1.24 | 0.73 |
| 6 | VH295452 | 2 | COV | 315 | 315 | 0.45 | 0.65 | 65.40 | 34.29 | 99.68 | 1.21 | 0.71 | 1.20 | 0.71 |
| 7 | VH295480 | 2 | COV | 267 | 267 | 0.43 | 0.63 | 64.42 | 35.21 | 99.63 | 1.25 | 0.71 | 1.22 | 0.70 |
| 8 | VH295543 | 2 | COV | 295 | 295 | 0.38 | 0.61 | 61.02 | 38.64 | 99.66 | 1.07 | 0.69 | 1.16 | 0.74 |
| 9 | VH295740 | 2 | COV | 257 | 257 | 0.43 | 0.62 | 65.76 | 34.24 | 100.00 | 1.25 | 0.65 | 1.23 | 0.69 |
| 10 | VH295793 | 2 | COV | 297 | 297 | 0.51 | 0.70 | 69.02 | 30.64 | 99.66 | 1.28 | 0.72 | 1.24 | 0.74 |
| 11 | VH295810 | 2 | COV | 259 | 259 | 0.38 | 0.61 | 61.00 | 38.61 | 99.61 | 1.22 | 0.72 | 1.21 | 0.71 |
| 12 | VH295835 | 2 | COV | 269 | 269 | 0.41 | 0.60 | 63.94 | 35.32 | 99.26 | 1.27 | 0.70 | 1.30 | 0.68 |
| 13 | VH295900 | 2 | COV | 177 | 177 | 0.39 | 0.63 | 62.15 | 37.85 | 100.00 | 1.32 | 0.70 | 1.27 | 0.74 |
| 14 | VH295920 | 2 | COV | 255 | 255 | 0.47 | 0.66 | 67.45 | 32.55 | 100.00 | 1.29 | 0.68 | 1.21 | 0.71 |
| 15 | VH295971 | 2 | COV | 315 | 315 | 0.45 | 0.64 | 66.67 | 33.02 | 99.68 | 1.21 | 0.70 | 1.19 | 0.68 |
| 16 | VH296033 | 2 | COV | 45 | 45 | 0.19 | 0.42 | 53.33 | 46.67 | 100.00 | 1.20 | 0.66 | 1.27 | 0.62 |
| 17 | VH296047 | 2 | COV | 250 | 250 | 0.43 | 0.62 | 64.80 | 34.40 | 99.20 | 1.26 | 0.69 | 1.31 | 0.72 |
| 18 | VH296072 | 2 | COV | 297 | 297 | 0.52 | 0.71 | 70.37 | 29.63 | 100.00 | 1.28 | 0.71 | 1.23 | 0.71 |
| 19 | VH296081 | 2 | COV | 303 | 303 | 0.46 | 0.60 | 67.66 | 31.02 | 98.68 | 1.30 | 0.68 | 1.28 | 0.67 |
| 20 | VH296090 | 2 | COV | 256 | 256 | 0.36 | 0.59 | 60.94 | 39.06 | 100.00 | 1.27 | 0.71 | 1.27 | 0.68 |

Table 8.G.17 *(continuation one)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH945409 | 2 | COV | 310 | 310 | 0.42 | 0.65 | 63.23 | 36.77 | 100.00 | 1.10 | 0.73 | 1.09 | 0.73 |
| 22 | VH945449 | 2 | COV | 301 | 301 | 0.43 | 0.63 | 64.45 | 34.55 | 99.00 | 1.24 | 0.73 | 1.26 | 0.72 |
| 23 | VH945517 | 2 | COV | 309 | 309 | 0.44 | 0.65 | 64.72 | 35.28 | 100.00 | 1.13 | 0.72 | 1.16 | 0.71 |
| 24 | VH945601 | 2 | COV | 226 | 226 | 0.51 | 0.70 | 70.35 | 29.65 | 100.00 | 1.32 | 0.72 | 1.31 | 0.70 |
| 25 | VH295215 | 4 | DVE | 258 | 258 | 0.56 | 0.81 | 68.60 | 31.01 | 99.61 | 2.22 | 0.91 | 2.19 | 0.94 |
| 26 | VH295480 | 4 | DVE | 267 | 267 | 0.51 | 0.76 | 66.29 | 32.58 | 98.88 | 2.21 | 0.90 | 2.30 | 0.92 |
| 27 | VH295740 | 4 | DVE | 257 | 257 | 0.51 | 0.77 | 66.93 | 33.07 | 100.00 | 2.27 | 0.84 | 2.30 | 0.86 |
| 28 | VH295810 | 4 | DVE | 259 | 259 | 0.49 | 0.77 | 64.09 | 35.14 | 99.23 | 2.28 | 0.94 | 2.29 | 0.89 |
| 29 | VH295835 | 4 | DVE | 269 | 269 | 0.49 | 0.76 | 65.06 | 34.57 | 99.63 | 2.28 | 0.89 | 2.30 | 0.84 |
| 30 | VH295900 | 4 | DVE | 177 | 177 | 0.48 | 0.76 | 64.41 | 35.59 | 100.00 | 2.22 | 0.89 | 2.20 | 0.83 |
| 31 | VH295920 | 4 | DVE | 255 | 255 | 0.33 | 0.74 | 52.16 | 47.84 | 100.00 | 2.50 | 0.96 | 2.42 | 0.94 |
| 32 | VH296047 | 4 | DVE | 250 | 250 | 0.42 | 0.76 | 58.80 | 41.20 | 100.00 | 2.43 | 0.92 | 2.48 | 0.92 |
| 33 | VH296090 | 4 | DVE | 256 | 256 | 0.46 | 0.74 | 62.89 | 36.33 | 99.22 | 2.29 | 0.84 | 2.25 | 0.92 |
| 34 | VH945601 | 4 | DVE | 226 | 226 | 0.45 | 0.77 | 60.18 | 39.38 | 99.56 | 2.44 | 0.93 | 2.44 | 0.98 |
| 35 | VH295230 | 4 | EEL | 321 | 321 | 0.54 | 0.79 | 68.85 | 30.53 | 99.38 | 2.01 | 0.90 | 2.02 | 0.87 |
| 36 | VH295238 | 4 | EEL | 310 | 310 | 0.54 | 0.81 | 68.06 | 31.94 | 100.00 | 2.05 | 0.92 | 2.04 | 0.91 |
| 37 | VH295406 | 4 | EEL | 316 | 316 | 0.51 | 0.76 | 66.46 | 31.96 | 98.42 | 1.91 | 0.88 | 1.94 | 0.92 |
| 38 | VH295431 | 4 | EEL | 314 | 314 | 0.45 | 0.76 | 62.42 | 37.58 | 100.00 | 2.05 | 0.89 | 2.02 | 0.88 |
| 39 | VH295452 | 4 | EEL | 315 | 315 | 0.54 | 0.77 | 69.21 | 29.84 | 99.05 | 1.98 | 0.86 | 1.95 | 0.89 |
| 40 | VH295543 | 4 | EEL | 295 | 295 | 0.52 | 0.78 | 67.80 | 32.20 | 100.00 | 1.91 | 0.85 | 1.92 | 0.87 |

Table 8.G.17 *(continuation two)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 41 | VH295793 | 4 | EEL | 297 | 297 | 0.53 | 0.80 | 67.34 | 32.66 | 100.00 | 2.14 | 0.89 | 2.19 | 0.93 |
| 42 | VH295971 | 4 | EEL | 315 | 315 | 0.50 | 0.76 | 66.03 | 33.97 | 100.00 | 2.00 | 0.85 | 2.00 | 0.85 |
| 43 | VH296033 | 4 | EEL | 45 | 45 | 0.47 | 0.77 | 64.44 | 35.56 | 100.00 | 1.93 | 0.89 | 2.02 | 0.89 |
| 44 | VH296072 | 4 | EEL | 297 | 297 | 0.52 | 0.79 | 66.67 | 33.00 | 99.66 | 2.13 | 0.89 | 2.11 | 0.92 |
| 45 | VH296081 | 4 | EEL | 303 | 303 | 0.35 | 0.69 | 55.45 | 43.89 | 99.34 | 2.08 | 0.86 | 2.10 | 0.88 |
| 46 | VH945409 | 4 | EEL | 310 | 310 | 0.54 | 0.78 | 68.71 | 30.00 | 98.71 | 1.91 | 0.89 | 1.90 | 0.88 |
| 47 | VH945449 | 4 | EEL | 301 | 301 | 0.46 | 0.75 | 62.13 | 36.21 | 98.34 | 2.13 | 0.94 | 2.09 | 0.93 |
| 48 | VH945517 | 4 | EEL | 309 | 309 | 0.46 | 0.76 | 63.43 | 36.25 | 99.68 | 2.04 | 0.86 | 2.04 | 0.91 |
| 49 | VH295215 | 4 | POR | 258 | 258 | 0.51 | 0.78 | 65.89 | 33.72 | 99.61 | 2.21 | 0.88 | 2.20 | 0.92 |
| 50 | VH295230 | 4 | POR | 321 | 321 | 0.57 | 0.81 | 70.40 | 29.28 | 99.69 | 1.98 | 0.90 | 2.01 | 0.88 |
| 51 | VH295238 | 4 | POR | 310 | 310 | 0.57 | 0.83 | 70.32 | 29.68 | 100.00 | 2.05 | 0.93 | 2.04 | 0.92 |
| 52 | VH295406 | 4 | POR | 316 | 316 | 0.55 | 0.79 | 68.99 | 29.75 | 98.73 | 1.91 | 0.87 | 1.97 | 0.95 |
| 53 | VH295431 | 4 | POR | 314 | 314 | 0.47 | 0.77 | 63.38 | 36.62 | 100.00 | 2.04 | 0.88 | 2.05 | 0.89 |
| 54 | VH295452 | 4 | POR | 315 | 315 | 0.53 | 0.77 | 67.94 | 31.43 | 99.37 | 1.99 | 0.88 | 1.97 | 0.89 |
| 55 | VH295480 | 4 | POR | 267 | 267 | 0.53 | 0.77 | 66.67 | 32.21 | 98.88 | 2.27 | 0.89 | 2.36 | 0.93 |
| 56 | VH295543 | 4 | POR | 295 | 295 | 0.49 | 0.78 | 65.42 | 34.58 | 100.00 | 1.93 | 0.88 | 1.91 | 0.88 |
| 57 | VH295740 | 4 | POR | 257 | 257 | 0.43 | 0.72 | 61.87 | 38.13 | 100.00 | 2.28 | 0.83 | 2.32 | 0.83 |
| 58 | VH295793 | 4 | POR | 297 | 297 | 0.56 | 0.79 | 68.69 | 30.30 | 98.99 | 2.18 | 0.89 | 2.21 | 0.94 |
| 59 | VH295810 | 4 | POR | 259 | 259 | 0.49 | 0.77 | 64.48 | 34.75 | 99.23 | 2.30 | 0.94 | 2.32 | 0.86 |
| 60 | VH295835 | 4 | POR | 269 | 269 | 0.48 | 0.75 | 64.68 | 35.32 | 100.00 | 2.29 | 0.87 | 2.33 | 0.83 |

Table 8.G.17 *(continuation three)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 61 | VH295900 | 4 | POR | 177 | 177 | 0.47 | 0.77 | 63.28 | 36.72 | 100.00 | 2.25 | 0.90 | 2.25 | 0.88 |
| 62 | VH295920 | 4 | POR | 255 | 255 | 0.44 | 0.76 | 60.00 | 39.61 | 99.61 | 2.55 | 0.93 | 2.48 | 0.91 |
| 63 | VH295971 | 4 | POR | 315 | 315 | 0.49 | 0.76 | 65.40 | 34.60 | 100.00 | 2.07 | 0.85 | 2.03 | 0.85 |
| 64 | VH296033 | 4 | POR | 45 | 45 | 0.47 | 0.75 | 64.44 | 35.56 | 100.00 | 1.98 | 0.92 | 2.02 | 0.78 |
| 65 | VH296047 | 4 | POR | 250 | 250 | 0.46 | 0.77 | 61.60 | 38.40 | 100.00 | 2.47 | 0.90 | 2.50 | 0.93 |
| 66 | VH296072 | 4 | POR | 297 | 297 | 0.45 | 0.76 | 61.62 | 38.05 | 99.66 | 2.13 | 0.88 | 2.15 | 0.94 |
| 67 | VH296081 | 4 | POR | 303 | 303 | 0.33 | 0.68 | 54.13 | 45.54 | 99.67 | 2.07 | 0.87 | 2.13 | 0.84 |
| 68 | VH296090 | 4 | POR | 256 | 256 | 0.51 | 0.77 | 66.41 | 33.20 | 99.61 | 2.29 | 0.84 | 2.32 | 0.90 |
| 69 | VH945409 | 4 | POR | 310 | 310 | 0.49 | 0.77 | 65.16 | 34.19 | 99.35 | 1.95 | 0.89 | 1.94 | 0.90 |
| 70 | VH945449 | 4 | POR | 301 | 301 | 0.44 | 0.75 | 61.13 | 37.87 | 99.00 | 2.11 | 0.92 | 2.09 | 0.91 |
| 71 | VH945517 | 4 | POR | 309 | 309 | 0.54 | 0.79 | 68.93 | 31.07 | 100.00 | 2.00 | 0.84 | 2.04 | 0.89 |
| 72 | VH945601 | 4 | POR | 226 | 226 | 0.44 | 0.77 | 59.73 | 39.82 | 99.56 | 2.47 | 0.92 | 2.47 | 0.99 |
| N/A | **AVERAGE** | N/A | N/A | 272 | 272 | 0.47 | 0.72 | 64.47 | 35.15 | 99.61 | 1.84 | 0.83 | 1.85 | 0.83 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Six—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295663 | 2 | COV | 333 | 333 | 0.50 | 0.65 | 70.27 | 27.93 | 98.20 | 1.41 | 0.70 | 1.37 | 0.71 |
| 2 | VH295680 | 2 | COV | 354 | 354 | 0.41 | 0.61 | 65.25 | 32.49 | 97.74 | 1.37 | 0.74 | 1.40 | 0.72 |
| 3 | VH295693 | 2 | COV | 392 | 392 | 0.38 | 0.54 | 67.60 | 29.85 | 97.45 | 1.58 | 0.65 | 1.48 | 0.67 |
| 4 | VH295754 | 2 | COV | 393 | 393 | 0.46 | 0.65 | 68.70 | 29.52 | 98.22 | 1.38 | 0.72 | 1.44 | 0.73 |
| 5 | VH295824 | 2 | COV | 404 | 404 | 0.36 | 0.50 | 76.73 | 19.31 | 96.04 | 1.75 | 0.54 | 1.66 | 0.64 |
| 6 | VH295873 | 2 | COV | 303 | 303 | 0.50 | 0.66 | 71.29 | 27.39 | 98.68 | 1.43 | 0.70 | 1.43 | 0.69 |
| 7 | VH295936 | 2 | COV | 391 | 391 | 0.27 | 0.43 | 65.73 | 28.90 | 94.63 | 1.67 | 0.59 | 1.52 | 0.72 |
| 8 | VH296012 | 2 | COV | 387 | 387 | 0.52 | 0.68 | 71.58 | 26.36 | 97.93 | 1.35 | 0.76 | 1.43 | 0.71 |
| 9 | VH945507 | 2 | COV | 405 | 405 | 0.38 | 0.55 | 64.69 | 32.84 | 97.53 | 1.43 | 0.69 | 1.44 | 0.69 |
| 10 | VH945512 | 2 | COV | 395 | 395 | 0.38 | 0.50 | 65.32 | 30.13 | 95.44 | 1.44 | 0.70 | 1.49 | 0.69 |
| 11 | VH945532 | 2 | COV | 317 | 317 | 0.46 | 0.65 | 66.88 | 31.55 | 98.42 | 1.34 | 0.75 | 1.31 | 0.73 |
| 12 | VH945542 | 2 | COV | 401 | 401 | 0.42 | 0.62 | 65.59 | 32.42 | 98.00 | 1.39 | 0.74 | 1.36 | 0.72 |
| 13 | VH945547 | 2 | COV | 374 | 374 | 0.47 | 0.64 | 71.12 | 26.74 | 97.86 | 1.47 | 0.72 | 1.49 | 0.69 |
| 14 | VH295663 | 4 | DVE | 333 | 333 | 0.42 | 0.72 | 58.86 | 38.14 | 97.00 | 2.21 | 0.94 | 2.20 | 0.94 |
| 15 | VH295873 | 4 | DVE | 303 | 303 | 0.48 | 0.71 | 63.04 | 32.67 | 95.71 | 2.27 | 0.94 | 2.29 | 0.94 |
| 16 | VH945532 | 4 | DVE | 317 | 317 | 0.44 | 0.68 | 60.25 | 35.33 | 95.58 | 2.21 | 0.95 | 2.11 | 0.91 |
| 17 | VH295680 | 4 | EEL | 354 | 354 | 0.51 | 0.73 | 69.49 | 29.66 | 99.15 | 1.75 | 0.81 | 1.68 | 0.76 |
| 18 | VH295693 | 4 | EEL | 392 | 392 | 0.39 | 0.67 | 60.20 | 39.03 | 99.23 | 1.91 | 0.80 | 1.78 | 0.79 |
| 19 | VH295754 | 4 | EEL | 393 | 393 | 0.54 | 0.75 | 70.23 | 29.77 | 100.00 | 1.80 | 0.80 | 1.82 | 0.76 |
| 20 | VH295824 | 4 | EEL | 404 | 404 | 0.39 | 0.59 | 60.40 | 37.13 | 97.52 | 2.03 | 0.73 | 1.87 | 0.76 |

Table 8.G.18 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH295936 | 4 | EEL | 391 | 391 | 0.40 | 0.69 | 58.82 | 39.39 | 98.21 | 2.09 | 0.82 | 2.06 | 0.91 |
| 22 | VH296012 | 4 | EEL | 387 | 387 | 0.52 | 0.70 | 70.28 | 28.17 | 98.45 | 1.74 | 0.76 | 1.79 | 0.75 |
| 23 | VH945507 | 4 | EEL | 405 | 405 | 0.44 | 0.65 | 65.19 | 33.09 | 98.27 | 1.74 | 0.76 | 1.71 | 0.75 |
| 24 | VH945512 | 4 | EEL | 395 | 395 | 0.48 | 0.71 | 66.33 | 32.41 | 98.73 | 1.83 | 0.82 | 1.82 | 0.81 |
| 25 | VH945542 | 4 | EEL | 401 | 401 | 0.49 | 0.69 | 68.33 | 30.67 | 99.00 | 1.77 | 0.78 | 1.75 | 0.73 |
| 26 | VH945547 | 4 | EEL | 374 | 374 | 0.48 | 0.71 | 66.31 | 32.35 | 98.66 | 1.82 | 0.84 | 1.77 | 0.78 |
| 27 | VH295663 | 4 | POR | 333 | 333 | 0.46 | 0.73 | 61.56 | 35.74 | 97.30 | 2.23 | 0.94 | 2.19 | 0.93 |
| 28 | VH295680 | 4 | POR | 354 | 354 | 0.53 | 0.74 | 70.34 | 28.81 | 99.15 | 1.82 | 0.83 | 1.75 | 0.75 |
| 29 | VH295693 | 4 | POR | 392 | 392 | 0.39 | 0.67 | 60.20 | 39.03 | 99.23 | 1.90 | 0.80 | 1.77 | 0.79 |
| 30 | VH295754 | 4 | POR | 393 | 393 | 0.53 | 0.75 | 69.97 | 30.03 | 100.00 | 1.80 | 0.79 | 1.84 | 0.76 |
| 31 | VH295824 | 4 | POR | 404 | 404 | 0.39 | 0.58 | 60.15 | 37.13 | 97.28 | 2.02 | 0.74 | 1.87 | 0.77 |
| 32 | VH295873 | 4 | POR | 303 | 303 | 0.49 | 0.73 | 63.37 | 33.00 | 96.37 | 2.26 | 0.95 | 2.28 | 0.95 |
| 33 | VH295936 | 4 | POR | 391 | 391 | 0.38 | 0.68 | 57.54 | 40.41 | 97.95 | 2.09 | 0.82 | 2.06 | 0.92 |
| 34 | VH296012 | 4 | POR | 387 | 387 | 0.54 | 0.71 | 71.32 | 27.13 | 98.45 | 1.74 | 0.77 | 1.80 | 0.75 |
| 35 | VH945507 | 4 | POR | 405 | 405 | 0.47 | 0.68 | 67.41 | 32.10 | 99.51 | 1.82 | 0.74 | 1.81 | 0.73 |
| 36 | VH945512 | 4 | POR | 395 | 395 | 0.50 | 0.72 | 67.09 | 31.90 | 98.99 | 1.84 | 0.82 | 1.85 | 0.79 |
| 37 | VH945532 | 4 | POR | 317 | 317 | 0.45 | 0.71 | 60.88 | 35.33 | 96.21 | 2.21 | 0.94 | 2.10 | 0.91 |
| 38 | VH945542 | 4 | POR | 401 | 401 | 0.48 | 0.70 | 67.58 | 32.17 | 99.75 | 1.80 | 0.77 | 1.77 | 0.72 |
| 39 | VH945547 | 4 | POR | 374 | 374 | 0.53 | 0.74 | 69.25 | 29.68 | 98.93 | 1.84 | 0.83 | 1.79 | 0.78 |
| N/A | **AVERAGE** | N/A | N/A | 373 | 373 | 0.45 | 0.66 | 66.03 | 31.94 | 97.97 | 1.78 | 0.78 | 1.75 | 0.78 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Seven—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295266 | 2 | COV | 362 | 362 | 0.53 | 0.68 | 74.86 | 25.14 | 100.00 | 1.50 | 0.64 | 1.51 | 0.62 |
| 2 | VH295271 | 2 | COV | 361 | 361 | 0.46 | 0.61 | 71.47 | 27.42 | 98.89 | 1.53 | 0.64 | 1.52 | 0.63 |
| 3 | VH295321 | 2 | COV | 355 | 355 | 0.35 | 0.51 | 65.63 | 30.99 | 96.62 | 1.59 | 0.61 | 1.45 | 0.71 |
| 4 | VH295334 | 2 | COV | 361 | 361 | 0.46 | 0.60 | 75.07 | 24.10 | 99.17 | 1.65 | 0.58 | 1.61 | 0.59 |
| 5 | VH295372 | 2 | COV | 316 | 316 | 0.33 | 0.45 | 65.82 | 32.28 | 98.10 | 1.58 | 0.57 | 1.54 | 0.63 |
| 6 | VH295398 | 2 | COV | 316 | 316 | 0.40 | 0.59 | 64.24 | 35.13 | 99.37 | 1.34 | 0.67 | 1.40 | 0.68 |
| 7 | VH295410 | 2 | COV | 339 | 339 | 0.44 | 0.58 | 69.32 | 29.79 | 99.12 | 1.47 | 0.62 | 1.49 | 0.64 |
| 8 | VH295508 | 2 | COV | 354 | 354 | 0.42 | 0.58 | 67.23 | 32.20 | 99.44 | 1.44 | 0.65 | 1.47 | 0.64 |
| 9 | VH295528 | 2 | COV | 291 | 291 | 0.30 | 0.57 | 61.86 | 36.77 | 98.63 | 1.49 | 0.71 | 1.48 | 0.70 |
| 10 | VH295576 | 2 | COV | 326 | 326 | 0.39 | 0.58 | 62.58 | 34.66 | 97.24 | 1.30 | 0.76 | 1.37 | 0.72 |
| 11 | VH295636 | 2 | COV | 356 | 356 | 0.46 | 0.62 | 70.51 | 28.93 | 99.44 | 1.46 | 0.65 | 1.51 | 0.63 |
| 12 | VH295719 | 2 | COV | 349 | 349 | 0.46 | 0.58 | 71.92 | 28.08 | 100.00 | 1.52 | 0.59 | 1.53 | 0.56 |
| 13 | VH295761 | 2 | COV | 264 | 264 | 0.24 | 0.43 | 62.50 | 36.36 | 98.86 | 1.55 | 0.61 | 1.61 | 0.59 |
| 14 | VH295906 | 2 | COV | 358 | 358 | 0.34 | 0.55 | 62.01 | 36.31 | 98.32 | 1.45 | 0.67 | 1.40 | 0.72 |
| 15 | VH295943 | 2 | COV | 361 | 361 | 0.34 | 0.50 | 63.16 | 34.07 | 97.23 | 1.42 | 0.68 | 1.53 | 0.65 |
| 16 | VH296104 | 2 | COV | 347 | 347 | 0.33 | 0.54 | 66.28 | 33.14 | 99.42 | 1.59 | 0.61 | 1.55 | 0.63 |
| 17 | VH296117 | 2 | COV | 347 | 347 | 0.56 | 0.68 | 78.39 | 21.33 | 99.71 | 1.58 | 0.60 | 1.60 | 0.59 |
| 18 | VH945434 | 2 | COV | 313 | 313 | 0.35 | 0.55 | 62.62 | 34.82 | 97.44 | 1.41 | 0.71 | 1.45 | 0.70 |
| 19 | VH945459 | 2 | COV | 347 | 347 | 0.44 | 0.59 | 72.91 | 26.22 | 99.14 | 1.63 | 0.58 | 1.57 | 0.62 |
| 20 | VH945463 | 2 | COV | 354 | 354 | 0.36 | 0.52 | 64.97 | 34.18 | 99.15 | 1.44 | 0.64 | 1.54 | 0.61 |

Table 8.G.19 *(continuation one)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH945527 | 2 | COV | 383 | 383 | 0.47 | 0.62 | 71.02 | 27.94 | 98.96 | 1.50 | 0.63 | 1.50 | 0.67 |
| 22 | VH945573 | 2 | COV | 285 | 285 | 0.34 | 0.50 | 61.05 | 35.44 | 96.49 | 1.33 | 0.73 | 1.44 | 0.67 |
| 23 | VH295528 | 4 | DVE | 291 | 291 | 0.57 | 0.81 | 69.42 | 29.90 | 99.31 | 2.22 | 0.93 | 2.19 | 0.92 |
| 24 | VH295576 | 4 | DVE | 326 | 326 | 0.50 | 0.79 | 63.80 | 34.97 | 98.77 | 2.25 | 0.98 | 2.25 | 0.95 |
| 25 | VH295761 | 4 | DVE | 264 | 264 | 0.43 | 0.73 | 59.85 | 38.64 | 98.48 | 2.28 | 0.92 | 2.25 | 0.91 |
| 26 | VH945434 | 4 | DVE | 313 | 313 | 0.54 | 0.80 | 68.05 | 31.95 | 100.00 | 2.26 | 0.90 | 2.26 | 0.87 |
| 27 | VH945573 | 4 | DVE | 285 | 285 | 0.49 | 0.77 | 63.51 | 35.09 | 98.60 | 2.34 | 0.98 | 2.42 | 0.89 |
| 28 | VH295266 | 3 | EEL | 362 | 362 | 0.64 | 0.75 | 78.45 | 20.72 | 99.17 | 1.73 | 0.69 | 1.74 | 0.69 |
| 29 | VH295271 | 4 | EEL | 361 | 361 | 0.62 | 0.77 | 77.01 | 22.71 | 99.72 | 1.77 | 0.74 | 1.70 | 0.68 |
| 30 | VH295321 | 4 | EEL | 355 | 355 | 0.52 | 0.72 | 71.55 | 27.89 | 99.44 | 1.67 | 0.74 | 1.60 | 0.72 |
| 31 | VH295334 | 3 | EEL | 361 | 361 | 0.54 | 0.65 | 73.68 | 25.48 | 99.17 | 1.61 | 0.61 | 1.64 | 0.68 |
| 32 | VH295372 | 3 | EEL | 316 | 316 | 0.58 | 0.74 | 75.00 | 24.68 | 99.68 | 1.69 | 0.73 | 1.66 | 0.68 |
| 33 | VH295398 | 3 | EEL | 316 | 316 | 0.58 | 0.75 | 75.00 | 24.05 | 99.05 | 1.61 | 0.75 | 1.65 | 0.76 |
| 34 | VH295410 | 4 | EEL | 339 | 339 | 0.66 | 0.77 | 79.65 | 19.76 | 99.41 | 1.64 | 0.69 | 1.65 | 0.70 |
| 35 | VH295508 | 3 | EEL | 354 | 354 | 0.54 | 0.67 | 72.88 | 26.27 | 99.15 | 1.77 | 0.67 | 1.73 | 0.66 |
| 36 | VH295636 | 3 | EEL | 356 | 356 | 0.59 | 0.77 | 73.88 | 25.84 | 99.72 | 1.83 | 0.77 | 1.85 | 0.77 |
| 37 | VH295719 | 3 | EEL | 349 | 349 | 0.59 | 0.75 | 74.50 | 24.93 | 99.43 | 1.74 | 0.74 | 1.71 | 0.75 |
| 38 | VH295906 | 3 | EEL | 358 | 358 | 0.58 | 0.75 | 75.42 | 24.30 | 99.72 | 1.63 | 0.70 | 1.64 | 0.73 |
| 39 | VH295943 | 3 | EEL | 361 | 361 | 0.54 | 0.72 | 71.19 | 27.70 | 98.89 | 1.78 | 0.75 | 1.76 | 0.76 |
| 40 | VH296104 | 3 | EEL | 347 | 347 | 0.50 | 0.70 | 69.74 | 29.97 | 99.71 | 1.63 | 0.68 | 1.75 | 0.75 |

Table 8.G.19 *(continuation two)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 41 | VH296117 | 3 | EEL | 347 | 347 | 0.61 | 0.78 | 76.37 | 23.34 | 99.71 | 1.66 | 0.74 | 1.71 | 0.76 |
| 42 | VH945459 | 4 | EEL | 347 | 347 | 0.53 | 0.71 | 71.76 | 27.95 | 99.71 | 1.63 | 0.71 | 1.67 | 0.71 |
| 43 | VH945463 | 4 | EEL | 354 | 354 | 0.49 | 0.70 | 69.49 | 29.38 | 98.87 | 1.61 | 0.75 | 1.70 | 0.76 |
| 44 | VH945527 | 4 | EEL | 383 | 383 | 0.51 | 0.71 | 69.19 | 29.77 | 98.96 | 1.89 | 0.78 | 1.84 | 0.75 |
| 45 | VH295266 | 3 | POR | 362 | 362 | 0.63 | 0.76 | 77.62 | 22.10 | 99.72 | 1.73 | 0.69 | 1.75 | 0.70 |
| 46 | VH295271 | 4 | POR | 361 | 361 | 0.61 | 0.75 | 76.45 | 22.99 | 99.45 | 1.77 | 0.74 | 1.69 | 0.68 |
| 47 | VH295321 | 4 | POR | 355 | 355 | 0.52 | 0.70 | 70.99 | 27.61 | 98.59 | 1.68 | 0.74 | 1.62 | 0.74 |
| 48 | VH295334 | 3 | POR | 361 | 361 | 0.54 | 0.66 | 73.41 | 25.76 | 99.17 | 1.63 | 0.63 | 1.65 | 0.68 |
| 49 | VH295372 | 3 | POR | 316 | 316 | 0.58 | 0.74 | 74.68 | 25.00 | 99.68 | 1.68 | 0.73 | 1.66 | 0.70 |
| 50 | VH295398 | 3 | POR | 316 | 316 | 0.55 | 0.74 | 73.73 | 25.00 | 98.73 | 1.61 | 0.75 | 1.62 | 0.77 |
| 51 | VH295410 | 4 | POR | 339 | 339 | 0.66 | 0.77 | 79.94 | 19.47 | 99.41 | 1.65 | 0.70 | 1.65 | 0.69 |
| 52 | VH295508 | 3 | POR | 354 | 354 | 0.53 | 0.67 | 72.60 | 26.84 | 99.44 | 1.77 | 0.67 | 1.73 | 0.66 |
| 53 | VH295528 | 4 | POR | 291 | 291 | 0.58 | 0.81 | 70.45 | 28.52 | 98.97 | 2.20 | 0.94 | 2.19 | 0.91 |
| 54 | VH295576 | 4 | POR | 326 | 326 | 0.49 | 0.78 | 63.19 | 35.58 | 98.77 | 2.25 | 0.98 | 2.25 | 0.96 |
| 55 | VH295636 | 3 | POR | 356 | 356 | 0.60 | 0.78 | 74.44 | 25.28 | 99.72 | 1.83 | 0.78 | 1.83 | 0.77 |
| 56 | VH295719 | 3 | POR | 349 | 349 | 0.60 | 0.76 | 75.07 | 24.36 | 99.43 | 1.74 | 0.74 | 1.71 | 0.75 |
| 57 | VH295761 | 4 | POR | 264 | 264 | 0.43 | 0.73 | 59.47 | 39.02 | 98.48 | 2.27 | 0.93 | 2.25 | 0.91 |
| 58 | VH295906 | 3 | POR | 358 | 358 | 0.62 | 0.77 | 77.65 | 22.07 | 99.72 | 1.63 | 0.70 | 1.62 | 0.72 |
| 59 | VH295943 | 3 | POR | 361 | 361 | 0.54 | 0.72 | 71.75 | 27.15 | 98.89 | 1.78 | 0.74 | 1.76 | 0.75 |
| 60 | VH296104 | 3 | POR | 347 | 347 | 0.51 | 0.70 | 69.74 | 29.97 | 99.71 | 1.65 | 0.69 | 1.76 | 0.75 |

Table 8.G.19 *(continuation three)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 61 | VH296117 | 3 | POR | 347 | 347 | 0.62 | 0.79 | 76.66 | 23.34 | 100.00 | 1.67 | 0.74 | 1.73 | 0.76 |
| 62 | VH945434 | 4 | POR | 313 | 313 | 0.54 | 0.80 | 68.05 | 31.95 | 100.00 | 2.26 | 0.90 | 2.25 | 0.88 |
| 63 | VH945459 | 4 | POR | 347 | 347 | 0.51 | 0.69 | 70.61 | 28.82 | 99.42 | 1.64 | 0.71 | 1.68 | 0.70 |
| 64 | VH945463 | 4 | POR | 354 | 354 | 0.54 | 0.74 | 71.47 | 28.25 | 99.72 | 1.64 | 0.75 | 1.73 | 0.76 |
| 65 | VH945527 | 4 | POR | 383 | 383 | 0.52 | 0.72 | 69.71 | 29.50 | 99.22 | 1.89 | 0.78 | 1.85 | 0.75 |
| 66 | VH945573 | 4 | POR | 285 | 285 | 0.49 | 0.77 | 63.16 | 35.79 | 98.95 | 2.35 | 0.98 | 2.42 | 0.89 |
| N/A | **AVERAGE** | N/A | N/A | 338 | 338 | 0.50 | 0.68 | 70.39 | 28.71 | 99.10 | 1.72 | 0.73 | 1.72 | 0.73 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Eight—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater1 Item Score Mean** | **Rater1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295279 | 2 | COV | 359 | 359 | 0.41 | 0.57 | 69.92 | 28.41 | 98.33 | 1.58 | 0.62 | 1.54 | 0.65 |
| 2 | VH295294 | 2 | COV | 351 | 351 | 0.42 | 0.53 | 74.93 | 24.22 | 99.15 | 1.68 | 0.55 | 1.66 | 0.54 |
| 3 | VH295301 | 2 | COV | 257 | 257 | 0.36 | 0.49 | 78.21 | 21.40 | 99.61 | 1.77 | 0.49 | 1.76 | 0.46 |
| 4 | VH295357 | 2 | COV | 340 | 340 | 0.45 | 0.60 | 70.59 | 27.35 | 97.94 | 1.53 | 0.65 | 1.50 | 0.68 |
| 5 | VH295386 | 2 | COV | 345 | 345 | 0.47 | 0.58 | 77.68 | 21.45 | 99.13 | 1.70 | 0.54 | 1.67 | 0.56 |
| 6 | VH295465 | 2 | COV | 340 | 340 | 0.46 | 0.57 | 73.24 | 24.71 | 97.94 | 1.57 | 0.62 | 1.58 | 0.62 |
| 7 | VH295486 | 2 | COV | 380 | 380 | 0.41 | 0.60 | 73.42 | 26.32 | 99.74 | 1.66 | 0.58 | 1.62 | 0.59 |
| 8 | VH295513 | 2 | COV | 354 | 354 | 0.42 | 0.61 | 71.19 | 27.68 | 98.87 | 1.58 | 0.65 | 1.57 | 0.63 |
| 9 | VH295596 | 2 | COV | 250 | 250 | 0.36 | 0.47 | 74.00 | 25.20 | 99.20 | 1.68 | 0.53 | 1.72 | 0.51 |
| 10 | VH295604 | 2 | COV | 357 | 357 | 0.37 | 0.46 | 74.51 | 23.53 | 98.04 | 1.69 | 0.56 | 1.71 | 0.52 |
| 11 | VH295624 | 2 | COV | 354 | 354 | 0.35 | 0.51 | 73.16 | 24.86 | 98.02 | 1.71 | 0.56 | 1.65 | 0.59 |
| 12 | VH295768 | 2 | COV | 380 | 380 | 0.49 | 0.58 | 80.79 | 18.68 | 99.47 | 1.77 | 0.47 | 1.69 | 0.52 |
| 13 | VH295831 | 2 | COV | 357 | 357 | 0.44 | 0.57 | 72.27 | 25.21 | 97.48 | 1.56 | 0.67 | 1.59 | 0.61 |
| 14 | VH295845 | 2 | COV | 360 | 360 | 0.43 | 0.64 | 72.50 | 26.94 | 99.44 | 1.61 | 0.60 | 1.58 | 0.67 |
| 15 | VH295978 | 2 | COV | 333 | 333 | 0.46 | 0.63 | 72.37 | 26.73 | 99.10 | 1.56 | 0.65 | 1.55 | 0.64 |
| 16 | VH296017 | 2 | COV | 342 | 342 | 0.37 | 0.61 | 68.71 | 30.12 | 98.83 | 1.56 | 0.68 | 1.56 | 0.65 |
| 17 | VH296025 | 2 | COV | 322 | 322 | 0.44 | 0.57 | 71.74 | 27.33 | 99.07 | 1.52 | 0.61 | 1.63 | 0.58 |
| 18 | VH296059 | 2 | COV | 325 | 325 | 0.49 | 0.59 | 74.15 | 24.92 | 99.08 | 1.58 | 0.60 | 1.56 | 0.58 |
| 19 | VH296097 | 2 | COV | 335 | 335 | 0.44 | 0.56 | 73.13 | 25.67 | 98.81 | 1.61 | 0.59 | 1.59 | 0.59 |
| 20 | VH945424 | 2 | COV | 338 | 338 | 0.42 | 0.63 | 70.12 | 28.99 | 99.11 | 1.55 | 0.65 | 1.52 | 0.67 |

Table 8.G.20 *(continuation one)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater1 Item Score Mean** | **Rater1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH945497 | 2 | COV | 343 | 343 | 0.38 | 0.58 | 66.47 | 32.94 | 99.42 | 1.50 | 0.66 | 1.50 | 0.65 |
| 22 | VH945502 | 2 | COV | 363 | 363 | 0.41 | 0.57 | 77.96 | 21.76 | 99.72 | 1.73 | 0.51 | 1.73 | 0.51 |
| 23 | VH945552 | 2 | COV | 326 | 326 | 0.51 | 0.62 | 78.53 | 21.17 | 99.69 | 1.67 | 0.55 | 1.65 | 0.54 |
| 24 | VH945593 | 2 | COV | 308 | 308 | 0.42 | 0.54 | 75.00 | 24.68 | 99.68 | 1.67 | 0.54 | 1.67 | 0.54 |
| 25 | VH295301 | 4 | DVE | 257 | 257 | 0.55 | 0.81 | 67.70 | 31.91 | 99.61 | 2.59 | 0.95 | 2.51 | 0.91 |
| 26 | VH295596 | 4 | DVE | 250 | 250 | 0.49 | 0.77 | 64.40 | 34.80 | 99.20 | 2.53 | 0.91 | 2.50 | 0.91 |
| 27 | VH296059 | 4 | DVE | 325 | 325 | 0.45 | 0.74 | 62.15 | 37.23 | 99.38 | 2.14 | 0.89 | 2.21 | 0.86 |
| 28 | VH296097 | 4 | DVE | 335 | 335 | 0.58 | 0.81 | 70.75 | 28.96 | 99.70 | 2.33 | 0.90 | 2.30 | 0.89 |
| 29 | VH945552 | 4 | DVE | 326 | 326 | 0.49 | 0.73 | 63.19 | 34.36 | 97.55 | 2.47 | 0.97 | 2.43 | 0.89 |
| 30 | VH945593 | 4 | DVE | 308 | 308 | 0.57 | 0.79 | 69.16 | 29.22 | 98.38 | 2.50 | 0.94 | 2.48 | 0.90 |
| 31 | VH295279 | 4 | EEL | 359 | 359 | 0.56 | 0.79 | 69.92 | 30.08 | 100.00 | 2.04 | 0.85 | 2.02 | 0.85 |
| 32 | VH295294 | 4 | EEL | 351 | 351 | 0.46 | 0.72 | 63.82 | 35.33 | 99.15 | 2.01 | 0.82 | 2.04 | 0.83 |
| 33 | VH295357 | 4 | EEL | 340 | 340 | 0.51 | 0.70 | 69.12 | 30.29 | 99.41 | 1.80 | 0.75 | 1.81 | 0.72 |
| 34 | VH295386 | 4 | EEL | 345 | 345 | 0.55 | 0.77 | 69.86 | 29.57 | 99.42 | 2.02 | 0.80 | 2.02 | 0.85 |
| 35 | VH295465 | 3 | EEL | 340 | 340 | 0.54 | 0.75 | 70.88 | 28.24 | 99.12 | 1.78 | 0.79 | 1.75 | 0.79 |
| 36 | VH295486 | 4 | EEL | 380 | 380 | 0.62 | 0.81 | 74.21 | 25.53 | 99.74 | 2.05 | 0.80 | 2.09 | 0.87 |
| 37 | VH295513 | 3 | EEL | 354 | 354 | 0.51 | 0.70 | 68.36 | 30.79 | 99.15 | 1.80 | 0.76 | 1.83 | 0.75 |
| 38 | VH295604 | 4 | EEL | 357 | 357 | 0.53 | 0.77 | 68.07 | 31.65 | 99.72 | 2.06 | 0.84 | 2.08 | 0.84 |
| 39 | VH295624 | 4 | EEL | 354 | 354 | 0.57 | 0.80 | 70.90 | 28.81 | 99.72 | 1.97 | 0.88 | 1.93 | 0.86 |
| 40 | VH295768 | 4 | EEL | 380 | 380 | 0.60 | 0.81 | 72.63 | 27.11 | 99.74 | 2.05 | 0.86 | 2.08 | 0.87 |

Table 8.G.20 *(continuation two)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater1 Item Score Mean** | **Rater1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 41 | VH295831 | 4 | EEL | 357 | 357 | 0.39 | 0.67 | 58.82 | 40.06 | 98.88 | 2.01 | 0.82 | 2.03 | 0.83 |
| 42 | VH295845 | 4 | EEL | 360 | 360 | 0.53 | 0.73 | 69.72 | 29.44 | 99.17 | 1.93 | 0.79 | 1.92 | 0.77 |
| 43 | VH295978 | 3 | EEL | 333 | 333 | 0.58 | 0.75 | 72.67 | 25.83 | 98.50 | 1.80 | 0.81 | 1.83 | 0.77 |
| 44 | VH296017 | 4 | EEL | 342 | 342 | 0.54 | 0.72 | 70.47 | 28.36 | 98.83 | 1.89 | 0.79 | 1.85 | 0.76 |
| 45 | VH296025 | 4 | EEL | 322 | 322 | 0.54 | 0.75 | 70.81 | 27.95 | 98.76 | 1.78 | 0.80 | 1.80 | 0.82 |
| 46 | VH945424 | 4 | EEL | 338 | 338 | 0.54 | 0.71 | 70.71 | 28.40 | 99.11 | 1.94 | 0.73 | 1.85 | 0.74 |
| 47 | VH945497 | 4 | EEL | 343 | 343 | 0.54 | 0.73 | 71.43 | 28.28 | 99.71 | 1.85 | 0.74 | 1.80 | 0.73 |
| 48 | VH945502 | 4 | EEL | 363 | 363 | 0.50 | 0.73 | 67.77 | 31.68 | 99.45 | 2.03 | 0.77 | 2.10 | 0.80 |
| 49 | VH295279 | 4 | POR | 359 | 359 | 0.56 | 0.79 | 69.92 | 29.81 | 99.72 | 2.07 | 0.86 | 2.03 | 0.85 |
| 50 | VH295294 | 4 | POR | 351 | 351 | 0.44 | 0.71 | 62.39 | 36.47 | 98.86 | 2.03 | 0.82 | 2.05 | 0.85 |
| 51 | VH295301 | 4 | POR | 257 | 257 | 0.53 | 0.77 | 66.15 | 31.91 | 98.05 | 2.57 | 0.95 | 2.47 | 0.94 |
| 52 | VH295357 | 4 | POR | 340 | 340 | 0.62 | 0.78 | 75.59 | 23.82 | 99.41 | 1.78 | 0.76 | 1.82 | 0.77 |
| 53 | VH295386 | 4 | POR | 345 | 345 | 0.55 | 0.77 | 69.86 | 29.57 | 99.42 | 2.03 | 0.81 | 2.03 | 0.85 |
| 54 | VH295465 | 3 | POR | 340 | 340 | 0.51 | 0.74 | 67.94 | 31.18 | 99.12 | 1.84 | 0.81 | 1.81 | 0.81 |
| 55 | VH295486 | 4 | POR | 380 | 380 | 0.59 | 0.80 | 72.37 | 27.37 | 99.74 | 2.06 | 0.80 | 2.11 | 0.88 |
| 56 | VH295513 | 3 | POR | 354 | 354 | 0.53 | 0.72 | 69.77 | 29.10 | 98.87 | 1.79 | 0.77 | 1.81 | 0.77 |
| 57 | VH295596 | 4 | POR | 250 | 250 | 0.47 | 0.77 | 62.40 | 37.20 | 99.60 | 2.51 | 0.93 | 2.47 | 0.91 |
| 58 | VH295604 | 4 | POR | 357 | 357 | 0.50 | 0.74 | 66.39 | 32.77 | 99.16 | 2.09 | 0.83 | 2.11 | 0.85 |
| 59 | VH295624 | 4 | POR | 354 | 354 | 0.58 | 0.81 | 71.19 | 28.81 | 100.00 | 1.97 | 0.88 | 1.94 | 0.84 |
| 60 | VH295768 | 4 | POR | 380 | 380 | 0.62 | 0.81 | 73.68 | 25.79 | 99.47 | 2.06 | 0.85 | 2.09 | 0.86 |

Table 8.G.20 *(continuation three)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater1 Item Score Mean** | **Rater1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 61 | VH295831 | 4 | POR | 357 | 357 | 0.48 | 0.73 | 64.99 | 34.17 | 99.16 | 1.98 | 0.83 | 2.02 | 0.85 |
| 62 | VH295845 | 4 | POR | 360 | 360 | 0.52 | 0.72 | 68.33 | 30.83 | 99.17 | 1.96 | 0.79 | 1.94 | 0.79 |
| 63 | VH295978 | 3 | POR | 333 | 333 | 0.60 | 0.77 | 73.87 | 24.92 | 98.80 | 1.84 | 0.83 | 1.84 | 0.78 |
| 64 | VH296017 | 4 | POR | 342 | 342 | 0.60 | 0.78 | 73.68 | 25.73 | 99.42 | 1.88 | 0.82 | 1.85 | 0.79 |
| 65 | VH296025 | 4 | POR | 322 | 322 | 0.55 | 0.76 | 71.12 | 27.95 | 99.07 | 1.82 | 0.81 | 1.84 | 0.82 |
| 66 | VH296059 | 4 | POR | 325 | 325 | 0.42 | 0.72 | 60.31 | 38.77 | 99.08 | 2.13 | 0.90 | 2.16 | 0.85 |
| 67 | VH296097 | 4 | POR | 335 | 335 | 0.55 | 0.80 | 68.66 | 31.04 | 99.70 | 2.31 | 0.91 | 2.28 | 0.89 |
| 68 | VH945424 | 4 | POR | 338 | 338 | 0.63 | 0.79 | 76.04 | 23.96 | 100.00 | 1.91 | 0.75 | 1.86 | 0.75 |
| 69 | VH945497 | 4 | POR | 343 | 343 | 0.48 | 0.68 | 66.47 | 32.65 | 99.13 | 1.87 | 0.76 | 1.83 | 0.74 |
| 70 | VH945502 | 4 | POR | 363 | 363 | 0.45 | 0.70 | 63.91 | 34.99 | 98.90 | 2.03 | 0.79 | 2.14 | 0.81 |
| 71 | VH945552 | 4 | POR | 326 | 326 | 0.45 | 0.71 | 60.43 | 36.81 | 97.24 | 2.43 | 0.95 | 2.40 | 0.89 |
| 72 | VH945593 | 4 | POR | 308 | 308 | 0.55 | 0.77 | 67.86 | 29.87 | 97.73 | 2.49 | 0.95 | 2.44 | 0.91 |
| N/A | **AVERAGE** | N/A | N/A | 338 | 338 | 0.50 | 0.69 | 70.21 | 28.88 | 99.10 | 1.91 | 0.75 | 1.91 | 0.75 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings by Two Raters in Human-Scoring Items for Grade Eleven—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater1 Item Score Mean** | **Rater1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH945419 | 2 | COV | 838 | 838 | 0.50 | 0.71 | 68.50 | 31.03 | 99.52 | 1.30 | 0.74 | 1.28 | 0.76 |
| 2 | VH945469 | 2 | COV | 825 | 825 | 0.38 | 0.61 | 62.67 | 36.12 | 98.79 | 1.35 | 0.73 | 1.35 | 0.73 |
| 3 | VH945474 | 2 | COV | 837 | 837 | 0.42 | 0.67 | 64.76 | 34.77 | 99.52 | 1.35 | 0.74 | 1.34 | 0.74 |
| 4 | VH945522 | 2 | COV | 795 | 795 | 0.45 | 0.67 | 66.42 | 33.33 | 99.75 | 1.33 | 0.73 | 1.34 | 0.72 |
| 5 | VH945537 | 2 | COV | 839 | 839 | 0.46 | 0.67 | 66.75 | 32.66 | 99.40 | 1.32 | 0.74 | 1.32 | 0.72 |
| 6 | VH945419 | 4 | EEL | 838 | 838 | 0.54 | 0.79 | 68.14 | 30.79 | 98.93 | 2.06 | 0.95 | 2.02 | 0.92 |
| 7 | VH945469 | 4 | EEL | 825 | 825 | 0.44 | 0.74 | 61.33 | 37.21 | 98.55 | 2.04 | 0.91 | 1.99 | 0.89 |
| 8 | VH945474 | 4 | EEL | 837 | 837 | 0.53 | 0.80 | 66.55 | 32.74 | 99.28 | 2.08 | 0.94 | 2.10 | 0.94 |
| 9 | VH945522 | 4 | EEL | 795 | 795 | 0.47 | 0.77 | 63.27 | 35.85 | 99.12 | 2.04 | 0.93 | 2.02 | 0.90 |
| 10 | VH945537 | 4 | EEL | 839 | 839 | 0.51 | 0.79 | 66.27 | 33.02 | 99.28 | 1.98 | 0.92 | 2.00 | 0.92 |
| 11 | VH945419 | 4 | POR | 838 | 838 | 0.51 | 0.78 | 65.63 | 33.53 | 99.16 | 2.14 | 0.93 | 2.12 | 0.90 |
| 12 | VH945469 | 4 | POR | 825 | 825 | 0.49 | 0.77 | 64.73 | 34.79 | 99.52 | 2.13 | 0.90 | 2.09 | 0.89 |
| 13 | VH945474 | 4 | POR | 837 | 837 | 0.53 | 0.79 | 66.55 | 32.74 | 99.28 | 2.16 | 0.92 | 2.20 | 0.94 |
| 14 | VH945522 | 4 | POR | 795 | 795 | 0.50 | 0.77 | 65.03 | 34.09 | 99.12 | 2.13 | 0.91 | 2.14 | 0.89 |
| 15 | VH945537 | 4 | POR | 839 | 839 | 0.53 | 0.76 | 67.10 | 31.59 | 98.69 | 2.15 | 0.89 | 2.13 | 0.89 |
| N/A | **AVERAGE** | N/A | N/A | 827 | 827 | 0.48 | 0.74 | 65.58 | 33.62 | 99.19 | 1.84 | 0.86 | 1.83 | 0.85 |

**Notes:**

The following is true for table 8.G.22 through table 8.G.35:

* Numbers indicate students who received valid ratings from AI machine (Rater 1).
* Rater 2 is the human rater.

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Three—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295225 | 2 | 422 | 422 | 0.44 | 0.58 | 73.46 | 24.88 | 98.34 | 0.40 | 0.62 | 0.38 | 0.61 |
| 2 | VH295343 | 2 | 431 | 431 | 0.49 | 0.63 | 71.23 | 28.07 | 99.30 | 0.61 | 0.66 | 0.43 | 0.62 |
| 3 | VH295564 | 2 | 417 | 417 | 0.47 | 0.60 | 68.59 | 29.50 | 98.08 | 0.62 | 0.72 | 0.62 | 0.64 |
| 4 | VH295658 | 2 | 413 | 413 | 0.50 | 0.67 | 69.98 | 28.81 | 98.79 | 0.56 | 0.67 | 0.73 | 0.74 |
| 5 | VH295674 | 2 | 420 | 420 | 0.49 | 0.64 | 66.90 | 29.29 | 96.19 | 0.70 | 0.75 | 0.87 | 0.80 |
| 6 | VH295688 | 2 | 429 | 429 | 0.34 | 0.54 | 72.03 | 26.11 | 98.14 | 0.44 | 0.67 | 0.22 | 0.48 |
| 7 | VH295711 | 2 | 438 | 438 | 0.34 | 0.55 | 56.16 | 37.67 | 93.84 | 0.75 | 0.74 | 0.91 | 0.91 |
| 8 | VH295877 | 2 | 440 | 440 | 0.54 | 0.72 | 72.05 | 27.05 | 99.09 | 0.66 | 0.71 | 0.61 | 0.76 |
| 9 | VH295947 | 2 | 420 | 420 | 0.37 | 0.56 | 58.57 | 37.38 | 95.95 | 0.79 | 0.77 | 0.91 | 0.78 |
| 10 | VH295995 | 2 | 433 | 433 | 0.38 | 0.62 | 64.67 | 33.72 | 98.38 | 0.67 | 0.74 | 0.44 | 0.67 |
| N/A | **AVERAGE** | N/A | 426 | 426 | 0.44 | 0.61 | 67.36 | 30.25 | 97.61 | 0.62 | 0.71 | 0.61 | 0.70 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Four—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295257 | 2 | 373 | 373 | 0.43 | 0.60 | 66.22 | 31.10 | 97.32 | 0.62 | 0.73 | 0.62 | 0.72 |
| 2 | VH295349 | 2 | 390 | 390 | 0.57 | 0.75 | 71.54 | 27.18 | 98.72 | 0.86 | 0.76 | 0.86 | 0.84 |
| 3 | VH295423 | 2 | 378 | 378 | 0.48 | 0.67 | 69.31 | 29.10 | 98.41 | 0.65 | 0.76 | 0.55 | 0.69 |
| 4 | VH295492 | 2 | 383 | 383 | 0.42 | 0.60 | 65.01 | 33.42 | 98.43 | 0.74 | 0.75 | 0.56 | 0.64 |
| 5 | VH295520 | 2 | 385 | 385 | 0.49 | 0.65 | 66.75 | 30.13 | 96.88 | 0.75 | 0.74 | 0.80 | 0.82 |
| 6 | VH295629 | 2 | 385 | 385 | 0.34 | 0.49 | 60.52 | 35.06 | 95.58 | 0.72 | 0.73 | 0.53 | 0.68 |
| 7 | VH295705 | 2 | 373 | 373 | 0.39 | 0.59 | 62.73 | 35.39 | 98.12 | 0.71 | 0.71 | 0.54 | 0.73 |
| 8 | VH295730 | 2 | 391 | 391 | 0.49 | 0.70 | 66.50 | 31.71 | 98.21 | 0.85 | 0.76 | 0.78 | 0.85 |
| 9 | VH295779 | 2 | 367 | 367 | 0.42 | 0.58 | 64.31 | 32.43 | 96.73 | 0.75 | 0.74 | 0.56 | 0.71 |
| 10 | VH295863 | 2 | 374 | 374 | 0.40 | 0.61 | 67.38 | 30.48 | 97.86 | 0.59 | 0.72 | 0.42 | 0.68 |
| 11 | VH295895 | 2 | 383 | 383 | 0.45 | 0.61 | 64.49 | 32.38 | 96.87 | 0.88 | 0.74 | 0.71 | 0.75 |
| 12 | VH295954 | 2 | 375 | 375 | 0.36 | 0.53 | 61.87 | 34.40 | 96.27 | 0.66 | 0.70 | 0.52 | 0.74 |
| N/A | **AVERAGE** | N/A | 380 | 380 | 0.44 | 0.62 | 65.55 | 31.90 | 97.45 | 0.73 | 0.74 | 0.62 | 0.74 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Five—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295229 | 2 | 364 | 364 | 0.38 | 0.53 | 61.81 | 30.49 | 92.31 | 0.82 | 0.82 | 0.46 | 0.71 |
| 2 | VH295404 | 2 | 356 | 356 | 0.42 | 0.66 | 63.48 | 33.99 | 97.47 | 0.79 | 0.81 | 0.68 | 0.79 |
| 3 | VH295430 | 2 | 365 | 365 | 0.41 | 0.63 | 60.27 | 38.08 | 98.36 | 1.17 | 0.70 | 1.01 | 0.84 |
| 4 | VH295450 | 2 | 363 | 363 | 0.63 | 0.78 | 76.03 | 21.76 | 97.80 | 0.88 | 0.85 | 0.77 | 0.82 |
| 5 | VH295541 | 2 | 353 | 353 | 0.56 | 0.77 | 71.39 | 27.76 | 99.15 | 0.84 | 0.81 | 0.81 | 0.83 |
| 6 | VH295739 | 2 | 358 | 358 | 0.34 | 0.57 | 57.82 | 40.78 | 98.60 | 0.96 | 0.71 | 0.65 | 0.69 |
| 7 | VH295807 | 2 | 365 | 365 | 0.46 | 0.67 | 63.56 | 33.97 | 97.53 | 1.02 | 0.77 | 0.73 | 0.79 |
| 8 | VH295968 | 2 | 361 | 361 | 0.37 | 0.60 | 58.17 | 38.23 | 96.40 | 0.97 | 0.80 | 0.60 | 0.74 |
| 9 | VH296032 | 2 | 60 | 60 | 0.41 | 0.60 | 63.33 | 35.00 | 98.33 | 0.78 | 0.72 | 0.57 | 0.70 |
| 10 | VH296044 | 2 | 356 | 356 | 0.50 | 0.73 | 67.42 | 31.74 | 99.16 | 0.87 | 0.79 | 0.78 | 0.84 |
| 11 | VH296077 | 2 | 364 | 364 | 0.52 | 0.69 | 69.23 | 26.92 | 96.15 | 0.90 | 0.84 | 0.59 | 0.76 |
| 12 | VH296080 | 2 | 364 | 364 | 0.29 | 0.54 | 52.75 | 44.51 | 97.25 | 1.15 | 0.72 | 1.00 | 0.81 |
| 13 | VH296088 | 2 | 350 | 350 | 0.44 | 0.67 | 62.29 | 36.57 | 98.86 | 1.00 | 0.74 | 0.91 | 0.84 |
| N/A | **AVERAGE** | N/A | 337 | 337 | 0.44 | 0.65 | 63.66 | 33.83 | 97.49 | 0.93 | 0.78 | 0.74 | 0.78 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Six—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH288262 | 2 | 97 | 97 | 0.61 | 0.65 | 79.38 | 19.59 | 98.97 | 0.45 | 0.58 | 0.55 | 0.58 |
| 2 | VH288267 | 2 | 681 | 681 | 0.58 | 0.61 | 81.94 | 17.91 | 99.85 | 0.28 | 0.50 | 0.34 | 0.47 |
| 3 | VH295315 | 2 | 477 | 477 | 0.47 | 0.66 | 71.91 | 26.42 | 98.32 | 0.40 | 0.65 | 0.56 | 0.73 |
| 4 | VH295437 | 2 | 473 | 473 | 0.59 | 0.75 | 78.86 | 19.87 | 98.73 | 0.50 | 0.71 | 0.48 | 0.71 |
| 5 | VH295555 | 2 | 473 | 473 | 0.52 | 0.75 | 69.56 | 29.81 | 99.37 | 0.77 | 0.81 | 0.70 | 0.80 |
| 6 | VH295666 | 2 | 478 | 478 | 0.65 | 0.82 | 77.41 | 22.38 | 99.79 | 0.80 | 0.76 | 0.77 | 0.83 |
| 7 | VH295677 | 2 | 467 | 467 | 0.58 | 0.73 | 75.37 | 24.41 | 99.79 | 0.61 | 0.67 | 0.60 | 0.69 |
| 8 | VH295691 | 2 | 476 | 476 | 0.57 | 0.74 | 74.37 | 25.42 | 99.79 | 0.63 | 0.72 | 0.61 | 0.71 |
| 9 | VH295752 | 2 | 456 | 456 | 0.38 | 0.56 | 58.55 | 34.65 | 93.20 | 0.59 | 0.71 | 1.03 | 0.83 |
| 10 | VH295821 | 2 | 467 | 467 | 0.58 | 0.78 | 74.09 | 25.27 | 99.36 | 0.65 | 0.78 | 0.75 | 0.82 |
| 11 | VH295872 | 2 | 466 | 466 | 0.38 | 0.64 | 58.80 | 38.41 | 97.21 | 0.65 | 0.74 | 1.01 | 0.85 |
| 12 | VH295983 | 2 | 471 | 471 | 0.53 | 0.74 | 68.15 | 31.00 | 99.15 | 0.84 | 0.78 | 1.12 | 0.82 |
| 13 | VH296166 | 2 | 712 | 712 | 0.64 | 0.77 | 79.21 | 20.79 | 100.00 | 0.48 | 0.59 | 0.66 | 0.73 |
| 14 | VH296198 | 2 | 1,283 | 1,283 | 0.60 | 0.72 | 76.54 | 23.15 | 99.69 | 0.72 | 0.65 | 0.72 | 0.67 |
| 15 | VH296306 | 2 | 232 | 232 | 0.48 | 0.57 | 69.83 | 28.88 | 98.71 | 0.71 | 0.56 | 0.78 | 0.69 |
| 16 | VH296310 | 2 | 1,206 | 1,206 | 0.57 | 0.69 | 75.37 | 24.13 | 99.50 | 0.58 | 0.63 | 0.60 | 0.66 |
| 17 | VH296354 | 2 | 52 | 52 | 0.66 | 0.76 | 80.77 | 19.23 | 100.00 | 0.56 | 0.57 | 0.63 | 0.69 |
| 18 | VH296445 | 2 | 296 | 296 | 0.44 | 0.63 | 66.89 | 33.11 | 100.00 | 0.48 | 0.59 | 0.74 | 0.70 |
| 19 | VH296446 | 2 | 45 | 45 | 0.44 | 0.29 | 75.56 | 20.00 | 95.56 | 0.27 | 0.45 | 0.38 | 0.58 |
| 20 | VH296447 | 2 | 789 | 789 | 0.68 | 0.70 | 83.90 | 16.10 | 100.00 | 0.41 | 0.52 | 0.46 | 0.53 |

Table 8.G.25 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH296451 | 2 | 69 | 69 | 0.37 | 0.43 | 68.12 | 28.99 | 97.10 | 0.32 | 0.53 | 0.52 | 0.63 |
| 22 | VH296454 | 2 | 60 | 60 | 0.50 | 0.48 | 75.00 | 21.67 | 96.67 | 0.30 | 0.50 | 0.52 | 0.62 |
| 23 | VH296504 | 2 | 139 | 139 | 0.29 | 0.40 | 60.43 | 38.85 | 99.28 | 0.75 | 0.54 | 0.62 | 0.63 |
| 24 | VH296527 | 2 | 302 | 302 | 0.63 | 0.81 | 82.12 | 17.88 | 100.00 | 0.37 | 0.63 | 0.48 | 0.72 |
| 25 | VH296570 | 2 | 1,144 | 1,144 | 0.56 | 0.70 | 73.60 | 26.14 | 99.74 | 0.68 | 0.64 | 0.72 | 0.71 |
| 26 | VH296628 | 2 | 160 | 160 | 0.80 | 0.88 | 86.88 | 13.13 | 100.00 | 0.73 | 0.70 | 0.86 | 0.79 |
| N/A | **AVERAGE** | N/A | 460 | 460 | 0.54 | 0.66 | 73.95 | 24.89 | 98.84 | 0.56 | 0.64 | 0.66 | 0.70 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Seven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295263 | 2 | 419 | 419 | 0.54 | 0.76 | 69.21 | 29.83 | 99.05 | 0.84 | 0.80 | 1.01 | 0.87 |
| 2 | VH295270 | 2 | 416 | 416 | 0.75 | 0.88 | 85.34 | 14.66 | 100.00 | 0.60 | 0.78 | 0.68 | 0.81 |
| 3 | VH295306 | 2 | 416 | 416 | 0.50 | 0.72 | 66.83 | 32.45 | 99.28 | 0.81 | 0.77 | 0.95 | 0.82 |
| 4 | VH295325 | 2 | 402 | 402 | 0.54 | 0.67 | 70.90 | 26.62 | 97.51 | 0.71 | 0.73 | 0.82 | 0.75 |
| 5 | VH295339 | 2 | 419 | 419 | 0.55 | 0.74 | 70.17 | 28.64 | 98.81 | 0.88 | 0.80 | 0.93 | 0.80 |
| 6 | VH295401 | 2 | 414 | 414 | 0.57 | 0.77 | 72.22 | 27.29 | 99.52 | 0.72 | 0.79 | 0.87 | 0.81 |
| 7 | VH295415 | 2 | 409 | 409 | 0.54 | 0.66 | 81.17 | 18.83 | 100.00 | 0.30 | 0.53 | 0.31 | 0.52 |
| 8 | VH295505 | 2 | 417 | 417 | 0.46 | 0.67 | 64.03 | 34.05 | 98.08 | 0.85 | 0.77 | 1.01 | 0.82 |
| 9 | VH295526 | 2 | 415 | 415 | 0.53 | 0.74 | 71.81 | 27.71 | 99.52 | 0.66 | 0.78 | 0.59 | 0.73 |
| 10 | VH295574 | 2 | 413 | 413 | 0.56 | 0.75 | 73.37 | 26.39 | 99.76 | 0.68 | 0.75 | 0.65 | 0.72 |
| 11 | VH295635 | 2 | 413 | 413 | 0.59 | 0.76 | 76.03 | 22.52 | 98.55 | 0.56 | 0.75 | 0.68 | 0.78 |
| 12 | VH295717 | 2 | 402 | 402 | 0.60 | 0.78 | 76.62 | 22.89 | 99.50 | 0.54 | 0.72 | 0.63 | 0.76 |
| 13 | VH295759 | 2 | 409 | 409 | 0.54 | 0.73 | 69.68 | 29.10 | 98.78 | 0.86 | 0.78 | 0.97 | 0.81 |
| 14 | VH295909 | 2 | 421 | 421 | 0.47 | 0.70 | 66.03 | 32.54 | 98.57 | 0.74 | 0.78 | 0.81 | 0.82 |
| 15 | VH295941 | 2 | 416 | 416 | 0.45 | 0.69 | 63.70 | 34.13 | 97.84 | 0.67 | 0.78 | 0.95 | 0.83 |
| 16 | VH296102 | 2 | 410 | 410 | 0.53 | 0.68 | 74.39 | 23.90 | 98.29 | 0.39 | 0.60 | 0.62 | 0.73 |
| 17 | VH296116 | 2 | 418 | 418 | 0.61 | 0.79 | 74.16 | 25.36 | 99.52 | 0.88 | 0.78 | 0.88 | 0.82 |
| 18 | VH297495 | 2 | 86 | 86 | 0.41 | 0.52 | 68.60 | 30.23 | 98.84 | 0.35 | 0.50 | 0.58 | 0.66 |
| 19 | VH297599 | 2 | 69 | 69 | 0.66 | 0.72 | 81.16 | 18.84 | 100.00 | 0.61 | 0.55 | 0.54 | 0.61 |
| 20 | VH297601 | 2 | 192 | 192 | 0.59 | 0.64 | 78.65 | 21.35 | 100.00 | 0.45 | 0.53 | 0.57 | 0.56 |

Table 8.G.26 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH297700 | 2 | 568 | 568 | 0.55 | 0.60 | 76.76 | 23.24 | 100.00 | 0.36 | 0.51 | 0.52 | 0.54 |
| 22 | VH297722 | 2 | 366 | 366 | 0.40 | 0.47 | 69.95 | 29.23 | 99.18 | 0.28 | 0.48 | 0.51 | 0.57 |
| 23 | VH297723 | 2 | 490 | 490 | 0.60 | 0.63 | 78.78 | 21.22 | 100.00 | 0.42 | 0.53 | 0.58 | 0.52 |
| 24 | VH297730 | 2 | 526 | 526 | 0.65 | 0.71 | 82.13 | 17.87 | 100.00 | 0.44 | 0.54 | 0.47 | 0.57 |
| 25 | VH297739 | 2 | 528 | 528 | 0.50 | 0.64 | 73.48 | 26.14 | 99.62 | 0.47 | 0.60 | 0.48 | 0.64 |
| 26 | VH297764 | 2 | 48 | 48 | 0.59 | 0.69 | 77.08 | 22.92 | 100.00 | 0.69 | 0.59 | 0.67 | 0.63 |
| 27 | VH297772 | 2 | 42 | 42 | -0.08 | 0.23 | 38.10 | 61.90 | 100.00 | 0.62 | 0.62 | 0.62 | 0.66 |
| 28 | VH297775 | 2 | 286 | 286 | 0.61 | 0.76 | 76.22 | 23.78 | 100.00 | 0.71 | 0.69 | 0.74 | 0.72 |
| 29 | VH297778 | 2 | 185 | 185 | 0.61 | 0.69 | 78.38 | 21.62 | 100.00 | 0.65 | 0.54 | 0.63 | 0.64 |
| 30 | VH297781 | 2 | 1,492 | 1,492 | 0.56 | 0.73 | 72.25 | 27.55 | 99.80 | 0.80 | 0.69 | 0.84 | 0.75 |
| 31 | VH297802 | 2 | 179 | 179 | 0.57 | 0.67 | 75.98 | 24.02 | 100.00 | 0.58 | 0.64 | 0.56 | 0.57 |
| 32 | VH297811 | 2 | 1,617 | 1,617 | 0.63 | 0.74 | 78.23 | 21.46 | 99.69 | 0.62 | 0.61 | 0.65 | 0.71 |
| 33 | VH297882 | 2 | 91 | 91 | 0.51 | 0.72 | 69.23 | 30.77 | 100.00 | 0.71 | 0.73 | 0.71 | 0.76 |
| N/A | **AVERAGE** | N/A | 418 | 418 | 0.54 | 0.69 | 72.75 | 26.64 | 99.39 | 0.62 | 0.67 | 0.70 | 0.71 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Eight—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH279615 | 2 | 243 | 243 | 0.47 | 0.65 | 72.02 | 27.16 | 99.18 | 0.34 | 0.58 | 0.58 | 0.69 |
| 2 | VH279674 | 2 | 251 | 251 | 0.46 | 0.60 | 67.73 | 31.47 | 99.20 | 0.64 | 0.61 | 0.61 | 0.71 |
| 3 | VH279677 | 2 | 301 | 301 | 0.60 | 0.74 | 74.42 | 23.92 | 98.34 | 0.80 | 0.78 | 0.74 | 0.74 |
| 4 | VH280240 | 2 | 553 | 553 | 0.63 | 0.71 | 81.01 | 18.99 | 100.00 | 0.68 | 0.56 | 0.80 | 0.57 |
| 5 | VH280246 | 2 | 511 | 511 | 0.47 | 0.53 | 79.26 | 20.55 | 99.80 | 0.85 | 0.53 | 0.92 | 0.41 |
| 6 | VH280252 | 2 | 227 | 227 | 0.47 | 0.66 | 72.25 | 26.43 | 98.68 | 0.48 | 0.69 | 0.48 | 0.67 |
| 7 | VH280255 | 2 | 473 | 473 | 0.59 | 0.70 | 75.48 | 23.89 | 99.37 | 0.73 | 0.63 | 0.76 | 0.69 |
| 8 | VH280276 | 2 | 505 | 505 | 0.57 | 0.73 | 74.26 | 25.74 | 100.00 | 0.65 | 0.69 | 0.69 | 0.71 |
| 9 | VH280408 | 2 | 470 | 470 | 0.32 | 0.52 | 57.45 | 41.49 | 98.94 | 0.67 | 0.58 | 0.72 | 0.79 |
| 10 | VH280500 | 2 | 277 | 277 | 0.59 | 0.76 | 74.01 | 25.99 | 100.00 | 0.74 | 0.70 | 0.79 | 0.76 |
| 11 | VH280507 | 2 | 251 | 251 | 0.34 | 0.50 | 64.14 | 35.86 | 100.00 | 0.33 | 0.50 | 0.62 | 0.62 |
| 12 | VH280510 | 2 | 329 | 329 | 0.69 | 0.82 | 82.37 | 17.63 | 100.00 | 0.50 | 0.67 | 0.59 | 0.74 |
| 13 | VH280515 | 2 | 713 | 713 | 0.67 | 0.80 | 79.52 | 19.92 | 99.44 | 0.68 | 0.72 | 0.74 | 0.77 |
| 14 | VH280518 | 2 | 256 | 256 | 0.62 | 0.80 | 75.00 | 24.61 | 99.61 | 0.85 | 0.79 | 0.96 | 0.82 |
| 15 | VH280522 | 2 | 637 | 637 | 0.48 | 0.65 | 68.13 | 29.04 | 97.17 | 0.49 | 0.64 | 0.80 | 0.81 |
| 16 | VH280685 | 2 | 256 | 256 | 0.68 | 0.77 | 82.03 | 17.97 | 100.00 | 0.67 | 0.62 | 0.68 | 0.63 |
| 17 | VH280871 | 2 | 276 | 276 | 0.22 | 0.33 | 54.35 | 40.22 | 94.57 | 0.35 | 0.54 | 0.73 | 0.70 |
| 18 | VH281238 | 2 | 552 | 552 | 0.57 | 0.71 | 73.55 | 25.91 | 99.46 | 0.73 | 0.64 | 0.83 | 0.73 |
| 19 | VH281341 | 2 | 79 | 79 | 0.11 | 0.27 | 36.71 | 51.90 | 88.61 | 0.28 | 0.53 | 1.03 | 0.72 |
| 20 | VH281717 | 2 | 140 | 140 | 0.58 | 0.71 | 80.00 | 20.00 | 100.00 | 0.37 | 0.59 | 0.41 | 0.59 |

Table 8.G.27 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH282793 | 2 | 938 | 938 | 0.55 | 0.66 | 74.41 | 25.05 | 99.47 | 0.62 | 0.62 | 0.55 | 0.63 |
| 22 | VH295277 | 2 | 394 | 394 | 0.44 | 0.67 | 62.44 | 35.03 | 97.46 | 0.88 | 0.80 | 1.15 | 0.81 |
| 23 | VH295291 | 2 | 404 | 404 | 0.59 | 0.76 | 72.77 | 26.73 | 99.50 | 0.98 | 0.73 | 0.95 | 0.81 |
| 24 | VH295298 | 2 | 399 | 399 | 0.52 | 0.67 | 68.67 | 29.57 | 98.25 | 1.05 | 0.75 | 1.09 | 0.75 |
| 25 | VH295355 | 2 | 408 | 408 | 0.50 | 0.70 | 67.16 | 31.62 | 98.77 | 0.76 | 0.75 | 0.88 | 0.79 |
| 26 | VH295384 | 2 | 407 | 407 | 0.60 | 0.76 | 76.17 | 22.11 | 98.28 | 0.59 | 0.75 | 0.70 | 0.79 |
| 27 | VH295463 | 2 | 405 | 405 | 0.56 | 0.75 | 72.84 | 25.68 | 98.52 | 0.61 | 0.75 | 0.78 | 0.83 |
| 28 | VH295599 | 2 | 406 | 406 | 0.53 | 0.73 | 69.95 | 29.31 | 99.26 | 0.77 | 0.78 | 0.80 | 0.77 |
| 29 | VH295601 | 2 | 407 | 407 | 0.56 | 0.76 | 70.76 | 28.75 | 99.51 | 0.96 | 0.82 | 0.90 | 0.80 |
| 30 | VH295765 | 2 | 418 | 418 | 0.66 | 0.84 | 77.51 | 22.49 | 100.00 | 0.90 | 0.82 | 1.02 | 0.84 |
| 31 | VH295829 | 2 | 420 | 420 | 0.63 | 0.76 | 75.95 | 23.33 | 99.29 | 0.74 | 0.73 | 0.89 | 0.73 |
| 32 | VH295843 | 2 | 405 | 405 | 0.54 | 0.75 | 72.10 | 26.67 | 98.77 | 0.59 | 0.75 | 0.74 | 0.83 |
| 33 | VH295975 | 2 | 397 | 397 | 0.60 | 0.75 | 74.56 | 24.94 | 99.50 | 0.71 | 0.69 | 0.76 | 0.78 |
| 34 | VH296021 | 2 | 404 | 404 | 0.52 | 0.73 | 69.06 | 28.71 | 97.77 | 0.68 | 0.78 | 0.88 | 0.87 |
| 35 | VH296023 | 2 | 400 | 400 | 0.50 | 0.71 | 67.25 | 31.75 | 99.00 | 0.80 | 0.76 | 0.96 | 0.80 |
| 36 | VH296063 | 2 | 409 | 409 | 0.60 | 0.81 | 74.33 | 25.43 | 99.76 | 0.83 | 0.84 | 0.76 | 0.80 |
| 37 | VH296095 | 2 | 409 | 409 | 0.70 | 0.84 | 79.95 | 19.56 | 99.51 | 0.93 | 0.81 | 1.02 | 0.82 |
| N/A | **AVERAGE** | N/A | 398 | 398 | 0.53 | 0.69 | 71.61 | 27.17 | 98.78 | 0.68 | 0.69 | 0.79 | 0.74 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Eleven—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH279671 | 2 | 831 | 831 | 0.56 | 0.71 | 71.36 | 26.84 | 98.19 | 0.81 | 0.77 | 0.86 | 0.77 |
| 2 | VH280370 | 2 | 201 | 201 | 0.61 | 0.75 | 75.12 | 24.88 | 100.00 | 0.81 | 0.77 | 0.78 | 0.64 |
| 3 | VH289608 | 2 | 104 | 104 | 0.60 | 0.77 | 74.04 | 25.96 | 100.00 | 1.15 | 0.76 | 1.09 | 0.75 |
| 4 | VH289733 | 2 | 76 | 76 | 0.40 | 0.62 | 64.47 | 35.53 | 100.00 | 0.64 | 0.67 | 0.66 | 0.70 |
| 5 | VH289738 | 2 | 138 | 138 | 0.53 | 0.75 | 70.29 | 29.71 | 100.00 | 0.80 | 0.80 | 0.70 | 0.73 |
| 6 | VH289751 | 2 | 132 | 132 | 0.31 | 0.54 | 59.09 | 40.91 | 100.00 | 1.08 | 0.67 | 0.89 | 0.65 |
| 7 | VH289752 | 2 | 894 | 894 | 0.45 | 0.66 | 65.21 | 34.34 | 99.55 | 0.87 | 0.73 | 0.91 | 0.73 |
| 8 | VH289899 | 2 | 622 | 622 | 0.31 | 0.54 | 55.31 | 40.84 | 96.14 | 0.68 | 0.70 | 0.88 | 0.83 |
| 9 | VH289907 | 2 | 645 | 645 | 0.40 | 0.64 | 60.16 | 38.45 | 98.60 | 0.88 | 0.74 | 0.93 | 0.82 |
| 10 | VH290102 | 2 | 81 | 81 | 0.36 | 0.63 | 56.79 | 43.21 | 100.00 | 1.16 | 0.78 | 0.75 | 0.62 |
| 11 | VH290293 | 2 | 523 | 523 | 0.62 | 0.76 | 76.10 | 23.71 | 99.81 | 0.87 | 0.76 | 0.87 | 0.68 |
| 12 | VH290294 | 2 | 317 | 317 | 0.55 | 0.74 | 72.56 | 22.71 | 95.27 | 0.88 | 0.89 | 0.72 | 0.88 |
| 13 | VH290304 | 2 | 388 | 388 | 0.55 | 0.67 | 75.77 | 23.97 | 99.74 | 0.48 | 0.62 | 0.50 | 0.62 |
| 14 | VH290316 | 2 | 290 | 290 | 0.41 | 0.53 | 67.93 | 31.38 | 99.31 | 0.58 | 0.65 | 0.49 | 0.54 |
| 15 | VH290481 | 2 | 722 | 722 | 0.56 | 0.74 | 70.91 | 28.53 | 99.45 | 0.90 | 0.79 | 0.94 | 0.75 |
| 16 | VH290483 | 2 | 798 | 798 | 0.50 | 0.72 | 66.92 | 32.08 | 99.00 | 0.91 | 0.81 | 1.01 | 0.78 |
| 17 | VH290486 | 2 | 154 | 154 | 0.50 | 0.63 | 71.43 | 28.57 | 100.00 | 0.53 | 0.60 | 0.73 | 0.62 |
| 18 | VH290487 | 2 | 210 | 210 | 0.50 | 0.69 | 68.10 | 31.43 | 99.52 | 0.70 | 0.67 | 0.79 | 0.79 |
| 19 | VH290488 | 2 | 291 | 291 | 0.54 | 0.68 | 72.85 | 26.80 | 99.66 | 0.61 | 0.74 | 0.58 | 0.58 |
| 20 | VH290517 | 2 | 821 | 821 | 0.32 | 0.56 | 55.30 | 42.63 | 97.93 | 0.80 | 0.71 | 0.97 | 0.79 |

Table 8.G.28 *(continuation one)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH290560 | 2 | 444 | 444 | 0.38 | 0.59 | 61.49 | 37.61 | 99.10 | 0.71 | 0.68 | 0.77 | 0.74 |
| 22 | VH290625 | 2 | 774 | 774 | 0.55 | 0.68 | 72.74 | 26.49 | 99.22 | 0.72 | 0.68 | 0.79 | 0.67 |
| 23 | VH290628 | 2 | 994 | 994 | 0.61 | 0.76 | 74.75 | 24.95 | 99.70 | 0.87 | 0.73 | 0.87 | 0.74 |
| 24 | VH290848 | 2 | 541 | 541 | 0.38 | 0.63 | 59.70 | 39.56 | 99.26 | 1.00 | 0.76 | 1.08 | 0.75 |
| 25 | VH290894 | 2 | 862 | 862 | 0.29 | 0.47 | 53.94 | 41.65 | 95.59 | 1.10 | 0.72 | 1.10 | 0.78 |
| 26 | VH290918 | 2 | 61 | 61 | 0.61 | 0.68 | 78.69 | 19.67 | 98.36 | 0.46 | 0.65 | 0.56 | 0.65 |
| 27 | VH290919 | 2 | 400 | 400 | 0.60 | 0.72 | 76.75 | 22.75 | 99.50 | 0.54 | 0.67 | 0.65 | 0.65 |
| 28 | VH290920 | 2 | 278 | 278 | 0.56 | 0.70 | 73.74 | 25.54 | 99.28 | 0.55 | 0.71 | 0.68 | 0.66 |
| 29 | VH290940 | 2 | 90 | 90 | 0.38 | 0.57 | 63.33 | 36.67 | 100.00 | 1.09 | 0.71 | 0.92 | 0.57 |
| 30 | VH290943 | 2 | 934 | 934 | 0.55 | 0.72 | 71.09 | 28.37 | 99.46 | 0.89 | 0.76 | 0.85 | 0.73 |
| 31 | VH290944 | 2 | 555 | 555 | 0.35 | 0.53 | 59.10 | 38.56 | 97.66 | 0.88 | 0.73 | 0.88 | 0.69 |
| 32 | VH290946 | 2 | 788 | 788 | 0.56 | 0.74 | 70.69 | 28.55 | 99.24 | 0.95 | 0.79 | 1.01 | 0.79 |
| 33 | VH290947 | 2 | 323 | 323 | 0.33 | 0.52 | 57.89 | 41.49 | 99.38 | 1.15 | 0.75 | 0.96 | 0.56 |
| 34 | VH290950 | 2 | 154 | 154 | 0.52 | 0.67 | 70.78 | 28.57 | 99.35 | 0.89 | 0.71 | 0.89 | 0.67 |
| 35 | VH291067 | 2 | 87 | 87 | 0.69 | 0.80 | 83.91 | 16.09 | 100.00 | 0.40 | 0.60 | 0.49 | 0.68 |
| 36 | VH291229 | 2 | 256 | 256 | 0.54 | 0.73 | 70.31 | 28.91 | 99.22 | 0.72 | 0.73 | 0.82 | 0.79 |
| 37 | VH291280 | 2 | 258 | 258 | 0.62 | 0.76 | 76.36 | 23.64 | 100.00 | 0.81 | 0.70 | 0.84 | 0.71 |
| 38 | VH291542 | 2 | 220 | 220 | 0.48 | 0.65 | 70.00 | 28.64 | 98.64 | 0.47 | 0.64 | 0.67 | 0.72 |
| 39 | VH291704 | 2 | 252 | 252 | 0.59 | 0.76 | 73.41 | 26.59 | 100.00 | 0.75 | 0.74 | 0.90 | 0.73 |
| 40 | VH291744 | 2 | 260 | 260 | 0.52 | 0.71 | 70.77 | 29.23 | 100.00 | 0.71 | 0.73 | 0.69 | 0.68 |

Table 8.G.28 *(continuation two)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 41 | VH292234 | 2 | 212 | 212 | 0.72 | 0.84 | 82.55 | 17.45 | 100.00 | 0.72 | 0.73 | 0.80 | 0.74 |
| 42 | VH292277 | 2 | 211 | 211 | 0.45 | 0.66 | 64.45 | 34.12 | 98.58 | 0.65 | 0.68 | 0.91 | 0.81 |
| 43 | VH292620 | 2 | 353 | 353 | 0.48 | 0.66 | 67.42 | 31.44 | 98.87 | 0.80 | 0.74 | 0.60 | 0.68 |
| 44 | VH292651 | 2 | 319 | 319 | 0.56 | 0.70 | 74.92 | 23.51 | 98.43 | 0.59 | 0.72 | 0.55 | 0.70 |
| 45 | VH292763 | 2 | 260 | 260 | 0.57 | 0.71 | 73.46 | 25.77 | 99.23 | 0.82 | 0.67 | 0.92 | 0.73 |
| 46 | VH292858 | 2 | 255 | 255 | 0.47 | 0.62 | 67.45 | 29.02 | 96.47 | 0.58 | 0.68 | 0.77 | 0.80 |
| 47 | VH293223 | 2 | 121 | 121 | 0.46 | 0.65 | 66.94 | 32.23 | 99.17 | 0.53 | 0.65 | 0.80 | 0.74 |
| 48 | VH293243 | 2 | 259 | 259 | 0.53 | 0.70 | 71.04 | 28.57 | 99.61 | 0.69 | 0.70 | 0.72 | 0.73 |
| 49 | VH293288 | 2 | 210 | 210 | 0.71 | 0.81 | 80.95 | 17.62 | 98.57 | 0.84 | 0.79 | 0.84 | 0.79 |
| 50 | VH293769 | 2 | 212 | 212 | 0.59 | 0.77 | 74.06 | 25.00 | 99.06 | 0.76 | 0.75 | 0.72 | 0.82 |
| 51 | VH293930 | 2 | 98 | 98 | 0.55 | 0.73 | 73.47 | 25.51 | 98.98 | 0.55 | 0.69 | 0.68 | 0.79 |
| 52 | VH294012 | 2 | 210 | 210 | 0.52 | 0.72 | 67.62 | 31.90 | 99.52 | 0.83 | 0.72 | 1.07 | 0.80 |
| 53 | VH295243 | 2 | 896 | 896 | 0.60 | 0.78 | 74.33 | 25.11 | 99.44 | 1.20 | 0.79 | 1.24 | 0.80 |
| 54 | VH295284 | 2 | 886 | 886 | 0.44 | 0.67 | 64.90 | 33.41 | 98.31 | 1.19 | 0.77 | 1.51 | 0.73 |
| 55 | VH295390 | 2 | 866 | 866 | 0.59 | 0.79 | 72.75 | 26.91 | 99.65 | 1.14 | 0.79 | 1.04 | 0.82 |
| 56 | VH295499 | 2 | 883 | 883 | 0.53 | 0.73 | 68.86 | 30.12 | 98.98 | 1.06 | 0.80 | 1.00 | 0.80 |
| 57 | VH295547 | 2 | 867 | 867 | 0.32 | 0.52 | 54.09 | 41.18 | 95.27 | 1.18 | 0.77 | 0.81 | 0.72 |
| 58 | VH295615 | 2 | 899 | 899 | 0.56 | 0.77 | 70.75 | 28.36 | 99.11 | 1.04 | 0.79 | 0.99 | 0.86 |
| 59 | VH295649 | 2 | 891 | 891 | 0.53 | 0.74 | 69.14 | 29.52 | 98.65 | 1.10 | 0.79 | 1.11 | 0.84 |
| 60 | VH295697 | 2 | 906 | 906 | 0.62 | 0.80 | 75.06 | 24.50 | 99.56 | 1.12 | 0.81 | 1.18 | 0.83 |

Table 8.G.28 *(continuation three)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 61 | VH295744 | 2 | 886 | 886 | 0.61 | 0.79 | 74.27 | 25.28 | 99.55 | 1.14 | 0.80 | 1.18 | 0.82 |
| 62 | VH295802 | 2 | 893 | 893 | 0.60 | 0.78 | 73.80 | 25.87 | 99.66 | 1.12 | 0.80 | 1.05 | 0.78 |
| 63 | VH295814 | 2 | 886 | 886 | 0.65 | 0.81 | 76.41 | 23.02 | 99.44 | 1.03 | 0.81 | 1.07 | 0.82 |
| 64 | VH295887 | 2 | 917 | 917 | 0.65 | 0.81 | 76.77 | 22.57 | 99.35 | 0.98 | 0.83 | 0.92 | 0.81 |
| 65 | VH296003 | 2 | 888 | 888 | 0.60 | 0.79 | 74.66 | 24.89 | 99.55 | 1.25 | 0.79 | 1.31 | 0.81 |
| 66 | VH296052 | 2 | 897 | 897 | 0.60 | 0.78 | 73.02 | 26.09 | 99.11 | 1.04 | 0.81 | 1.01 | 0.84 |
| N/A | **AVERAGE** | N/A | 484 | 484 | 0.52 | 0.69 | 69.73 | 29.32 | 99.05 | 0.84 | 0.73 | 0.87 | 0.74 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Three—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299060 | 1 | 517 | 517 | 0.78 | 0.78 | 88.97 | 11.03 | 100.00 | 0.43 | 0.50 | 0.51 | 0.50 |
| 2 | VH299061 | 1 | 505 | 505 | 0.78 | 0.78 | 91.88 | 8.12 | 100.00 | 0.24 | 0.43 | 0.25 | 0.44 |
| 3 | VH299294 | 2 | 512 | 512 | 0.65 | 0.83 | 76.37 | 23.44 | 99.80 | 1.18 | 0.85 | 1.03 | 0.80 |
| 4 | VH299295 | 1 | 509 | 509 | 0.94 | 0.94 | 97.25 | 2.75 | 100.00 | 0.39 | 0.49 | 0.38 | 0.48 |
| 5 | VH299297 | 2 | 509 | 509 | 0.78 | 0.88 | 87.62 | 11.20 | 98.82 | 0.54 | 0.76 | 0.64 | 0.83 |
| 6 | VH299298 | 2 | 505 | 505 | 0.64 | 0.82 | 86.34 | 13.27 | 99.60 | 0.31 | 0.63 | 0.35 | 0.67 |
| 7 | VH299352 | 2 | 536 | 536 | 0.62 | 0.82 | 79.85 | 19.03 | 98.88 | 0.59 | 0.84 | 0.52 | 0.77 |
| 8 | VH299378 | 2 | 514 | 514 | 0.79 | 0.90 | 91.44 | 8.17 | 99.61 | 0.41 | 0.74 | 0.35 | 0.66 |
| 9 | VH299380 | 1 | 523 | 523 | 0.80 | 0.80 | 90.06 | 9.94 | 100.00 | 0.44 | 0.50 | 0.49 | 0.50 |
| 10 | VH299381 | 2 | 506 | 506 | 0.67 | 0.82 | 85.18 | 14.23 | 99.41 | 0.39 | 0.66 | 0.42 | 0.70 |
| 11 | VH299416 | 2 | 506 | 506 | 0.88 | 0.95 | 96.25 | 3.75 | 100.00 | 0.26 | 0.60 | 0.26 | 0.60 |
| 12 | VH299417 | 2 | 507 | 507 | 0.81 | 0.88 | 88.17 | 11.05 | 99.21 | 0.61 | 0.77 | 0.71 | 0.77 |
| 13 | VH299420 | 2 | 500 | 500 | 0.70 | 0.84 | 84.80 | 13.80 | 98.60 | 0.55 | 0.81 | 0.49 | 0.74 |
| 14 | VH299467 | 2 | 519 | 519 | 0.84 | 0.94 | 97.88 | 2.12 | 100.00 | 0.11 | 0.42 | 0.12 | 0.44 |
| 15 | VH299468 | 2 | 517 | 517 | 0.82 | 0.90 | 89.17 | 10.64 | 99.81 | 0.60 | 0.75 | 0.61 | 0.74 |
| 16 | VH299470 | 2 | 523 | 523 | 0.68 | 0.84 | 84.51 | 13.96 | 98.47 | 0.53 | 0.80 | 0.51 | 0.80 |
| 17 | VH299560 | 2 | 516 | 516 | 0.52 | 0.75 | 76.94 | 21.32 | 98.26 | 0.37 | 0.68 | 0.55 | 0.80 |
| 18 | VH299632 | 2 | 516 | 516 | 0.89 | 0.93 | 93.99 | 6.01 | 100.00 | 0.51 | 0.65 | 0.51 | 0.62 |
| 19 | VH299781 | 2 | 492 | 492 | 0.85 | 0.89 | 92.07 | 7.52 | 99.59 | 0.46 | 0.65 | 0.49 | 0.66 |
| 20 | VH300000 | 1 | 508 | 508 | 0.79 | 0.79 | 89.37 | 10.63 | 100.00 | 0.42 | 0.49 | 0.47 | 0.50 |

Table 8.G.29 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH300001 | 1 | 502 | 502 | 0.75 | 0.75 | 90.84 | 9.16 | 100.00 | 0.24 | 0.43 | 0.23 | 0.42 |
| 22 | VH300060 | 2 | 512 | 512 | 0.50 | 0.72 | 65.82 | 33.98 | 99.80 | 1.06 | 0.84 | 0.80 | 0.69 |
| 23 | VH300062 | 1 | 502 | 502 | 0.92 | 0.92 | 96.22 | 3.78 | 100.00 | 0.35 | 0.48 | 0.35 | 0.48 |
| 24 | VH300063 | 2 | 505 | 505 | 0.85 | 0.94 | 92.08 | 7.92 | 100.00 | 0.58 | 0.81 | 0.60 | 0.83 |
| 25 | VH300064 | 2 | 507 | 507 | 0.64 | 0.84 | 85.80 | 14.20 | 100.00 | 0.35 | 0.66 | 0.33 | 0.65 |
| 26 | VH300360 | 2 | 510 | 510 | 0.57 | 0.78 | 77.65 | 21.57 | 99.22 | 0.60 | 0.85 | 0.40 | 0.62 |
| 27 | VH300364 | 1 | 517 | 517 | 0.83 | 0.83 | 91.68 | 8.32 | 100.00 | 0.40 | 0.49 | 0.46 | 0.50 |
| 28 | VH300365 | 2 | 484 | 484 | 0.75 | 0.86 | 87.19 | 12.40 | 99.59 | 0.47 | 0.73 | 0.49 | 0.70 |
| 29 | VH945771 | 3 | 518 | 518 | 0.77 | 0.90 | 86.29 | 13.51 | 99.81 | 0.64 | 0.85 | 0.71 | 0.88 |
| N/A | **AVERAGE** | N/A | 510 | 510 | 0.75 | 0.85 | 87.64 | 11.96 | 99.60 | 0.48 | 0.66 | 0.48 | 0.65 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Four—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299182 | 2 | 409 | 409 | 0.65 | 0.85 | 89.73 | 10.27 | 100.00 | 0.24 | 0.57 | 0.25 | 0.60 |
| 2 | VH299400 | 1 | 417 | 417 | 0.75 | 0.75 | 92.33 | 7.67 | 100.00 | 0.16 | 0.37 | 0.21 | 0.41 |
| 3 | VH299403 | 2 | 409 | 409 | 0.91 | 0.97 | 96.33 | 3.67 | 100.00 | 0.38 | 0.73 | 0.39 | 0.73 |
| 4 | VH299405 | 2 | 401 | 401 | 0.60 | 0.79 | 81.55 | 15.96 | 97.51 | 0.47 | 0.82 | 0.50 | 0.76 |
| 5 | VH299445 | 2 | 415 | 415 | 0.72 | 0.87 | 88.43 | 10.84 | 99.28 | 0.39 | 0.71 | 0.43 | 0.75 |
| 6 | VH299446 | 2 | 406 | 406 | 0.82 | 0.92 | 95.07 | 4.43 | 99.51 | 0.24 | 0.62 | 0.29 | 0.67 |
| 7 | VH299448 | 3 | 410 | 410 | 0.77 | 0.91 | 84.63 | 13.66 | 98.29 | 0.99 | 1.04 | 1.03 | 1.07 |
| 8 | VH299506 | 2 | 421 | 421 | 0.84 | 0.90 | 92.16 | 6.89 | 99.05 | 0.45 | 0.73 | 0.46 | 0.72 |
| 9 | VH299508 | 1 | 421 | 421 | 0.94 | 0.94 | 97.15 | 2.85 | 100.00 | 0.35 | 0.48 | 0.36 | 0.48 |
| 10 | VH299823 | 2 | 406 | 406 | 0.67 | 0.82 | 90.64 | 9.36 | 100.00 | 0.23 | 0.54 | 0.19 | 0.49 |
| 11 | VH299934 | 2 | 410 | 410 | 0.72 | 0.89 | 91.22 | 8.78 | 100.00 | 0.28 | 0.61 | 0.27 | 0.62 |
| 12 | VH300006 | 1 | 407 | 407 | 0.83 | 0.83 | 95.09 | 4.91 | 100.00 | 0.17 | 0.37 | 0.17 | 0.38 |
| 13 | VH300008 | 2 | 405 | 405 | 0.86 | 0.93 | 94.07 | 4.94 | 99.01 | 0.43 | 0.78 | 0.46 | 0.80 |
| 14 | VH300047 | 2 | 405 | 405 | 0.64 | 0.86 | 90.37 | 9.63 | 100.00 | 0.22 | 0.55 | 0.24 | 0.62 |
| 15 | VH300185 | 2 | 411 | 411 | 0.83 | 0.93 | 90.75 | 9.25 | 100.00 | 0.62 | 0.84 | 0.63 | 0.83 |
| 16 | VH300219 | 2 | 420 | 420 | 0.81 | 0.90 | 90.71 | 8.57 | 99.29 | 0.48 | 0.76 | 0.49 | 0.75 |
| 17 | VH300288 | 2 | 396 | 396 | 0.79 | 0.86 | 92.93 | 6.82 | 99.75 | 0.24 | 0.52 | 0.27 | 0.55 |
| 18 | VH300414 | 1 | 387 | 387 | 0.59 | 0.72 | 79.84 | 12.14 | 91.99 | 0.59 | 0.91 | 0.65 | 0.87 |
| N/A | **AVERAGE** | N/A | 409 | 409 | 0.76 | 0.87 | 90.72 | 8.37 | 99.09 | 0.39 | 0.66 | 0.41 | 0.67 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Five—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299043 | 2 | 485 | 485 | 0.69 | 0.85 | 87.42 | 12.16 | 99.59 | 0.39 | 0.70 | 0.33 | 0.64 |
| 2 | VH299045 | 2 | 482 | 482 | 0.69 | 0.83 | 90.04 | 9.13 | 99.17 | 0.28 | 0.63 | 0.26 | 0.58 |
| 3 | VH299078 | 2 | 462 | 462 | 0.64 | 0.83 | 88.31 | 10.82 | 99.13 | 0.27 | 0.62 | 0.31 | 0.66 |
| 4 | VH299080 | 2 | 459 | 459 | 0.40 | 0.61 | 82.79 | 15.90 | 98.69 | 0.26 | 0.59 | 0.17 | 0.44 |
| 5 | VH299081 | 3 | 455 | 455 | 0.49 | 0.80 | 74.95 | 20.00 | 94.95 | 0.56 | 1.02 | 0.62 | 0.99 |
| 6 | VH299143 | 2 | 453 | 453 | 0.62 | 0.81 | 83.89 | 15.23 | 99.12 | 0.37 | 0.69 | 0.40 | 0.70 |
| 7 | VH299151 | 2 | 437 | 437 | 0.36 | 0.54 | 79.18 | 17.62 | 96.80 | 0.15 | 0.46 | 0.35 | 0.64 |
| 8 | VH299164 | 2 | 446 | 446 | 0.67 | 0.83 | 88.34 | 10.99 | 99.33 | 0.29 | 0.63 | 0.33 | 0.64 |
| 9 | VH299190 | 1 | 438 | 438 | 0.66 | 0.66 | 85.84 | 14.16 | 100.00 | 0.31 | 0.46 | 0.28 | 0.45 |
| 10 | VH299409 | 2 | 448 | 448 | 0.74 | 0.86 | 85.49 | 14.51 | 100.00 | 0.58 | 0.75 | 0.51 | 0.68 |
| 11 | VH299410 | 1 | 445 | 445 | 0.70 | 0.70 | 97.98 | 2.02 | 100.00 | 0.03 | 0.18 | 0.04 | 0.19 |
| 12 | VH299412 | 3 | 425 | 425 | 0.35 | 0.69 | 69.65 | 24.94 | 94.59 | 0.39 | 0.81 | 0.58 | 0.93 |
| 13 | VH299433 | 1 | 462 | 462 | 0.71 | 0.71 | 95.02 | 4.98 | 100.00 | 0.08 | 0.26 | 0.11 | 0.32 |
| 14 | VH299434 | 2 | 455 | 455 | 0.76 | 0.88 | 84.84 | 14.95 | 99.78 | 0.71 | 0.81 | 0.71 | 0.78 |
| 15 | VH299438 | 2 | 446 | 446 | 0.83 | 0.91 | 93.27 | 6.73 | 100.00 | 0.31 | 0.58 | 0.34 | 0.61 |
| 16 | VH299595 | 2 | 470 | 470 | 0.65 | 0.82 | 84.04 | 15.11 | 99.15 | 0.40 | 0.72 | 0.45 | 0.70 |
| 17 | VH299601 | 3 | 457 | 457 | 0.52 | 0.80 | 76.37 | 19.91 | 96.28 | 0.52 | 1.01 | 0.64 | 0.99 |
| 18 | VH299680 | 1 | 460 | 460 | 0.81 | 0.81 | 96.09 | 3.91 | 100.00 | 0.10 | 0.30 | 0.14 | 0.34 |
| 19 | VH299683 | 2 | 455 | 455 | 0.69 | 0.84 | 80.22 | 19.78 | 100.00 | 0.77 | 0.81 | 0.71 | 0.76 |
| 20 | VH299685 | 2 | 447 | 447 | 0.82 | 0.87 | 93.06 | 6.71 | 99.78 | 0.30 | 0.55 | 0.29 | 0.55 |

Table 8.G.31 *(continuation one)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH299695 | 2 | 452 | 452 | 0.63 | 0.78 | 82.74 | 16.15 | 98.89 | 0.38 | 0.68 | 0.46 | 0.70 |
| 22 | VH299696 | 2 | 432 | 432 | 0.43 | 0.62 | 83.10 | 15.05 | 98.15 | 0.16 | 0.46 | 0.29 | 0.60 |
| 23 | VH299697 | 2 | 443 | 443 | 0.65 | 0.79 | 87.13 | 12.42 | 99.55 | 0.28 | 0.59 | 0.31 | 0.58 |
| 24 | VH299855 | 2 | 468 | 468 | 0.61 | 0.78 | 95.09 | 4.91 | 100.00 | 0.07 | 0.32 | 0.10 | 0.35 |
| 25 | VH299857 | 2 | 458 | 458 | 0.70 | 0.86 | 83.41 | 16.16 | 99.56 | 0.61 | 0.79 | 0.57 | 0.79 |
| 26 | VH299860 | 1 | 453 | 453 | 0.81 | 0.81 | 96.25 | 3.75 | 100.00 | 0.10 | 0.30 | 0.13 | 0.33 |
| 27 | VH299884 | 2 | 464 | 464 | 0.73 | 0.83 | 87.72 | 10.34 | 98.06 | 0.43 | 0.75 | 0.45 | 0.73 |
| 28 | VH299887 | 2 | 457 | 457 | 0.48 | 0.68 | 83.81 | 13.35 | 97.16 | 0.32 | 0.65 | 0.22 | 0.58 |
| 29 | VH299985 | 2 | 456 | 456 | 0.68 | 0.84 | 79.61 | 20.39 | 100.00 | 0.77 | 0.80 | 0.71 | 0.78 |
| 30 | VH299989 | 3 | 432 | 432 | 0.43 | 0.72 | 82.87 | 15.28 | 98.15 | 0.25 | 0.63 | 0.28 | 0.67 |
| 31 | VH299993 | 2 | 459 | 459 | 0.67 | 0.85 | 83.01 | 16.99 | 100.00 | 0.53 | 0.75 | 0.47 | 0.75 |
| 32 | VH299994 | 2 | 457 | 457 | 0.81 | 0.94 | 93.65 | 6.35 | 100.00 | 0.35 | 0.72 | 0.32 | 0.68 |
| 33 | VH300075 | 2 | 463 | 463 | 0.67 | 0.82 | 89.85 | 8.64 | 98.49 | 0.24 | 0.61 | 0.32 | 0.67 |
| 34 | VH300076 | 2 | 452 | 452 | 0.55 | 0.73 | 84.96 | 14.38 | 99.34 | 0.27 | 0.59 | 0.25 | 0.53 |
| 35 | VH300077 | 3 | 443 | 443 | 0.60 | 0.82 | 79.91 | 16.03 | 95.94 | 0.57 | 0.99 | 0.58 | 0.95 |

Table 8.G.31 *(continuation two)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 36 | VH300078 | 2 | 441 | 441 | 0.22 | 0.41 | 72.79 | 26.53 | 99.32 | 0.26 | 0.50 | 0.22 | 0.49 |
| 37 | VH300306 | 2 | 469 | 469 | 0.66 | 0.80 | 87.21 | 11.73 | 98.93 | 0.30 | 0.62 | 0.33 | 0.63 |
| 38 | VH300308 | 2 | 455 | 455 | 0.64 | 0.78 | 88.13 | 11.65 | 99.78 | 0.24 | 0.54 | 0.25 | 0.53 |
| 39 | VH945807 | 2 | 444 | 444 | 0.63 | 0.81 | 79.95 | 19.37 | 99.32 | 0.56 | 0.75 | 0.52 | 0.79 |
| 40 | VH945827 | 2 | 434 | 434 | 0.68 | 0.83 | 80.41 | 17.05 | 97.47 | 0.75 | 0.89 | 0.87 | 0.90 |
| 41 | VH945828 | 2 | 461 | 461 | 0.82 | 0.93 | 91.54 | 8.03 | 99.57 | 0.52 | 0.81 | 0.52 | 0.83 |
| 42 | VH945829 | 2 | 454 | 454 | 0.67 | 0.85 | 81.94 | 17.18 | 99.12 | 0.62 | 0.83 | 0.61 | 0.83 |
| 43 | VH945852 | 2 | 469 | 469 | 0.70 | 0.86 | 81.45 | 18.34 | 99.79 | 0.72 | 0.82 | 0.75 | 0.86 |
| 44 | VH945853 | 2 | 467 | 467 | 0.68 | 0.87 | 81.37 | 18.42 | 99.79 | 1.24 | 0.88 | 1.30 | 0.86 |
| 45 | VH945854 | 2 | 454 | 454 | 0.75 | 0.89 | 87.89 | 11.23 | 99.12 | 0.50 | 0.81 | 0.53 | 0.80 |
| N/A | **AVERAGE** | N/A | 454 | 454 | 0.64 | 0.79 | 85.39 | 13.54 | 98.93 | 0.40 | 0.66 | 0.42 | 0.66 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Six—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299282 | 1 | 438 | 438 | 0.99 | 0.99 | 99.77 | 0.23 | 100.00 | 0.16 | 0.37 | 0.17 | 0.37 |
| 2 | VH299283 | 2 | 430 | 430 | 0.71 | 0.87 | 82.33 | 16.74 | 99.07 | 1.20 | 0.88 | 1.23 | 0.88 |
| 3 | VH299285 | 2 | 431 | 431 | 0.79 | 0.88 | 87.70 | 12.06 | 99.77 | 0.62 | 0.75 | 0.58 | 0.73 |
| 4 | VH299453 | 2 | 541 | 541 | 0.50 | 0.67 | 84.29 | 12.75 | 97.04 | 0.34 | 0.66 | 0.19 | 0.53 |
| 5 | VH299454 | 2 | 538 | 538 | 0.49 | 0.67 | 78.62 | 19.33 | 97.96 | 0.32 | 0.61 | 0.39 | 0.67 |
| 6 | VH299455 | 1 | 550 | 550 | 0.73 | 0.73 | 95.27 | 4.73 | 100.00 | 0.10 | 0.30 | 0.10 | 0.30 |
| 7 | VH299482 | 1 | 559 | 559 | 0.98 | 0.98 | 99.46 | 0.54 | 100.00 | 0.16 | 0.37 | 0.16 | 0.37 |
| 8 | VH299484 | 2 | 538 | 538 | 0.71 | 0.87 | 82.34 | 16.73 | 99.07 | 1.21 | 0.87 | 1.16 | 0.90 |
| 9 | VH299485 | 2 | 544 | 544 | 0.70 | 0.83 | 80.33 | 19.12 | 99.45 | 0.84 | 0.81 | 0.75 | 0.77 |
| 10 | VH299518 | 2 | 536 | 536 | 0.43 | 0.63 | 79.66 | 18.28 | 97.95 | 0.37 | 0.65 | 0.18 | 0.50 |
| 11 | VH299520 | 2 | 517 | 517 | 0.57 | 0.75 | 81.04 | 17.99 | 99.03 | 0.35 | 0.64 | 0.41 | 0.68 |
| 12 | VH299521 | 1 | 552 | 552 | 0.71 | 0.71 | 94.20 | 5.80 | 100.00 | 0.12 | 0.33 | 0.10 | 0.30 |
| 13 | VH299522 | 2 | 537 | 537 | 0.60 | 0.78 | 90.69 | 8.38 | 99.07 | 0.20 | 0.54 | 0.18 | 0.50 |
| 14 | VH299582 | 1 | 559 | 559 | 0.93 | 0.93 | 97.32 | 2.68 | 100.00 | 0.29 | 0.45 | 0.29 | 0.45 |
| 15 | VH299585 | 1 | 555 | 555 | 0.82 | 0.82 | 93.87 | 6.13 | 100.00 | 0.23 | 0.42 | 0.21 | 0.41 |
| 16 | VH299651 | 2 | 556 | 556 | 0.51 | 0.71 | 82.55 | 15.29 | 97.84 | 0.37 | 0.67 | 0.24 | 0.59 |
| 17 | VH299652 | 2 | 540 | 540 | 0.51 | 0.73 | 76.67 | 21.48 | 98.15 | 0.40 | 0.70 | 0.49 | 0.74 |
| 18 | VH299655 | 2 | 550 | 550 | 0.61 | 0.76 | 87.27 | 10.00 | 97.27 | 0.24 | 0.59 | 0.36 | 0.71 |
| 19 | VH299788 | 1 | 560 | 560 | 0.98 | 0.98 | 99.11 | 0.89 | 100.00 | 0.25 | 0.43 | 0.26 | 0.44 |
| 20 | VH299790 | 2 | 534 | 534 | 0.49 | 0.72 | 66.10 | 33.15 | 99.25 | 0.76 | 0.72 | 0.92 | 0.85 |
| 21 | VH300109 | 2 | 540 | 540 | 0.48 | 0.69 | 80.93 | 16.48 | 97.41 | 0.40 | 0.68 | 0.24 | 0.61 |

Table 8.G.32 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 22 | VH300114 | 2 | 541 | 541 | 0.57 | 0.76 | 82.81 | 16.64 | 99.45 | 0.36 | 0.67 | 0.29 | 0.56 |
| 23 | VH300125 | 1 | 558 | 558 | 0.77 | 0.77 | 94.62 | 5.38 | 100.00 | 0.14 | 0.35 | 0.14 | 0.34 |
| 24 | VH300126 | 2 | 539 | 539 | 0.62 | 0.83 | 90.17 | 9.65 | 99.81 | 0.20 | 0.55 | 0.23 | 0.56 |
| 25 | VH300153 | 2 | 546 | 546 | 0.43 | 0.63 | 82.23 | 14.84 | 97.07 | 0.34 | 0.65 | 0.16 | 0.51 |
| 26 | VH300155 | 2 | 552 | 552 | 0.60 | 0.78 | 82.07 | 16.67 | 98.73 | 0.38 | 0.70 | 0.44 | 0.72 |
| 27 | VH300163 | 2 | 541 | 541 | 0.66 | 0.80 | 90.02 | 8.13 | 98.15 | 0.22 | 0.57 | 0.30 | 0.67 |
| 28 | VH300195 | 2 | 544 | 544 | 0.35 | 0.55 | 76.47 | 19.30 | 95.77 | 0.40 | 0.68 | 0.20 | 0.56 |
| 29 | VH300196 | 2 | 530 | 530 | 0.56 | 0.75 | 81.51 | 16.79 | 98.30 | 0.35 | 0.67 | 0.41 | 0.70 |
| 30 | VH300197 | 1 | 551 | 551 | 0.79 | 0.79 | 95.10 | 4.90 | 100.00 | 0.13 | 0.34 | 0.14 | 0.34 |
| 31 | VH300202 | 1 | 569 | 569 | 0.96 | 0.96 | 98.77 | 1.23 | 100.00 | 0.17 | 0.38 | 0.16 | 0.37 |
| 32 | VH300205 | 2 | 540 | 540 | 0.53 | 0.74 | 69.07 | 29.81 | 98.89 | 0.79 | 0.76 | 0.94 | 0.84 |
| 33 | VH300384 | 1 | 558 | 558 | 0.16 | 0.16 | 71.86 | 28.14 | 100.00 | 0.28 | 0.45 | 0.13 | 0.33 |
| 34 | VH300390 | 1 | 558 | 558 | 0.75 | 0.75 | 92.11 | 7.89 | 100.00 | 0.22 | 0.41 | 0.18 | 0.38 |
| 35 | VH945791 | 2 | 530 | 530 | 0.55 | 0.70 | 86.42 | 13.40 | 99.81 | 0.18 | 0.42 | 0.25 | 0.54 |
| 36 | VH945795 | 2 | 540 | 540 | 0.61 | 0.78 | 81.85 | 17.59 | 99.44 | 0.36 | 0.63 | 0.45 | 0.70 |
| 37 | VH945803 | 2 | 546 | 546 | 0.57 | 0.76 | 87.55 | 11.90 | 99.45 | 0.19 | 0.50 | 0.25 | 0.57 |
| 38 | VH953696 | 2 | 546 | 546 | 0.52 | 0.75 | 81.32 | 17.58 | 98.90 | 0.32 | 0.64 | 0.36 | 0.67 |
| 39 | VH953698 | 2 | 522 | 522 | 0.51 | 0.70 | 84.87 | 13.41 | 98.28 | 0.20 | 0.54 | 0.30 | 0.62 |
| 40 | VH953704 | 2 | 543 | 543 | 0.79 | 0.92 | 94.48 | 5.16 | 99.63 | 0.25 | 0.65 | 0.29 | 0.67 |
| 41 | VH953705 | 2 | 552 | 552 | 0.71 | 0.87 | 82.07 | 17.03 | 99.09 | 0.84 | 0.89 | 0.85 | 0.88 |
| 42 | VH953706 | 2 | 531 | 531 | 0.63 | 0.82 | 87.57 | 11.11 | 98.68 | 0.29 | 0.66 | 0.34 | 0.70 |
| N/A | **AVERAGE** | N/A | 537 | 537 | 0.64 | 0.77 | 86.01 | 12.98 | 98.99 | 0.37 | 0.58 | 0.37 | 0.58 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Seven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299055 | 2 | 514 | 514 | 0.57 | 0.77 | 80.16 | 17.51 | 97.67 | 0.46 | 0.77 | 0.45 | 0.75 |
| 2 | VH299074 | 1 | 634 | 634 | 0.92 | 0.92 | 98.11 | 1.89 | 100.00 | 0.14 | 0.35 | 0.14 | 0.35 |
| 3 | VH299212 | 1 | 587 | 587 | 0.28 | 0.28 | 83.82 | 16.18 | 100.00 | 0.19 | 0.39 | 0.05 | 0.22 |
| 4 | VH299240 | 1 | 553 | 553 | 0.62 | 0.82 | 92.04 | 7.59 | 99.64 | 0.15 | 0.47 | 0.19 | 0.53 |
| 5 | VH299248 | 2 | 552 | 552 | 0.53 | 0.71 | 90.04 | 9.06 | 99.09 | 0.16 | 0.48 | 0.16 | 0.45 |
| 6 | VH299575 | 2 | 566 | 566 | 0.62 | 0.80 | 78.45 | 20.49 | 98.94 | 0.56 | 0.77 | 0.63 | 0.81 |
| 7 | VH299869 | 2 | 581 | 581 | 0.54 | 0.74 | 82.44 | 16.35 | 98.80 | 0.29 | 0.59 | 0.36 | 0.67 |
| 8 | VH299871 | 1 | 605 | 605 | 0.75 | 0.75 | 95.70 | 4.30 | 100.00 | 0.10 | 0.29 | 0.09 | 0.29 |
| 9 | VH299872 | 2 | 583 | 583 | 0.45 | 0.66 | 84.39 | 14.58 | 98.97 | 0.21 | 0.53 | 0.22 | 0.51 |
| 10 | VH299923 | 1 | 591 | 591 | 0.13 | 0.13 | 79.36 | 20.64 | 100.00 | 0.23 | 0.42 | 0.02 | 0.15 |
| 11 | VH299950 | 2 | 586 | 586 | 0.57 | 0.78 | 82.94 | 16.38 | 99.32 | 0.35 | 0.66 | 0.36 | 0.67 |
| 12 | VH299952 | 1 | 608 | 608 | 0.74 | 0.74 | 95.23 | 4.77 | 100.00 | 0.12 | 0.32 | 0.09 | 0.28 |
| 13 | VH299953 | 2 | 577 | 577 | 0.47 | 0.67 | 85.27 | 12.82 | 98.09 | 0.21 | 0.54 | 0.23 | 0.56 |
| 14 | VH300022 | 1 | 624 | 624 | 0.88 | 0.88 | 96.63 | 3.37 | 100.00 | 0.17 | 0.38 | 0.16 | 0.37 |
| 15 | VH300070 | 2 | 577 | 577 | 0.76 | 0.87 | 88.56 | 10.23 | 98.79 | 0.46 | 0.76 | 0.50 | 0.79 |
| 16 | VH300071 | 2 | 558 | 558 | 0.59 | 0.78 | 79.93 | 17.38 | 97.31 | 0.56 | 0.81 | 0.48 | 0.79 |
| 17 | VH300090 | 2 | 556 | 556 | 0.55 | 0.78 | 91.91 | 7.91 | 99.82 | 0.12 | 0.43 | 0.15 | 0.46 |
| 18 | VH300091 | 2 | 557 | 557 | 0.57 | 0.75 | 75.04 | 23.16 | 98.20 | 0.52 | 0.73 | 0.68 | 0.80 |
| 19 | VH300259 | 2 | 598 | 598 | 0.78 | 0.89 | 88.13 | 11.04 | 99.16 | 0.59 | 0.82 | 0.61 | 0.83 |
| 20 | VH300318 | 1 | 557 | 557 | 0.56 | 0.75 | 92.64 | 7.00 | 99.64 | 0.11 | 0.39 | 0.13 | 0.43 |

Table 8.G.33 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH300320 | 2 | 568 | 568 | 0.62 | 0.79 | 76.58 | 22.36 | 98.94 | 0.67 | 0.77 | 0.71 | 0.82 |
| 22 | VH300449 | 2 | 543 | 543 | 0.56 | 0.77 | 78.27 | 18.97 | 97.24 | 0.54 | 0.82 | 0.52 | 0.79 |
| 23 | VH945902 | 2 | 587 | 587 | 0.70 | 0.86 | 89.61 | 9.88 | 99.49 | 0.30 | 0.64 | 0.32 | 0.67 |
| 24 | VH945903 | 2 | 577 | 577 | 0.80 | 0.93 | 90.99 | 8.67 | 99.65 | 0.53 | 0.83 | 0.52 | 0.85 |
| 25 | VH945904 | 3 | 580 | 580 | 0.35 | 0.66 | 70.52 | 25.34 | 95.86 | 0.41 | 0.80 | 0.48 | 0.79 |
| N/A | **AVERAGE** | N/A | 577 | 577 | 0.60 | 0.74 | 85.87 | 13.11 | 98.98 | 0.33 | 0.59 | 0.33 | 0.59 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Eight—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299087 | 2 | 601 | 601 | 0.54 | 0.71 | 81.20 | 17.80 | 99.00 | 0.29 | 0.56 | 0.37 | 0.65 |
| 2 | VH299314 | 2 | 608 | 608 | 0.61 | 0.81 | 88.65 | 10.86 | 99.51 | 0.28 | 0.61 | 0.20 | 0.54 |
| 3 | VH299320 | 1 | 621 | 621 | 0.76 | 0.76 | 92.59 | 7.41 | 100.00 | 0.20 | 0.40 | 0.19 | 0.39 |
| 4 | VH299489 | 1 | 606 | 606 | 0.88 | 0.88 | 95.87 | 4.13 | 100.00 | 0.22 | 0.41 | 0.21 | 0.41 |
| 5 | VH299493 | 2 | 599 | 599 | 0.66 | 0.83 | 77.46 | 22.20 | 99.67 | 0.86 | 0.87 | 1.03 | 0.80 |
| 6 | VH299494 | 2 | 571 | 571 | 0.45 | 0.67 | 82.14 | 16.29 | 98.42 | 0.18 | 0.49 | 0.35 | 0.65 |
| 7 | VH299669 | 2 | 582 | 582 | 0.55 | 0.71 | 83.16 | 14.78 | 97.94 | 0.25 | 0.55 | 0.37 | 0.68 |
| 8 | VH299670 | 1 | 587 | 587 | 0.57 | 0.57 | 84.16 | 15.84 | 100.00 | 0.25 | 0.43 | 0.24 | 0.43 |
| 9 | VH299711 | 2 | 588 | 588 | 0.62 | 0.80 | 74.15 | 25.34 | 99.49 | 0.80 | 0.85 | 1.01 | 0.79 |
| 10 | VH299712 | 1 | 611 | 611 | 0.86 | 0.86 | 94.60 | 5.40 | 100.00 | 0.28 | 0.45 | 0.26 | 0.44 |
| 11 | VH299713 | 2 | 575 | 575 | 0.41 | 0.62 | 73.74 | 21.91 | 95.65 | 0.31 | 0.65 | 0.50 | 0.76 |
| 12 | VH299739 | 2 | 599 | 599 | 0.60 | 0.81 | 84.14 | 15.03 | 99.17 | 0.35 | 0.67 | 0.39 | 0.71 |
| 13 | VH299741 | 2 | 617 | 617 | 0.92 | 0.96 | 96.27 | 3.40 | 99.68 | 0.48 | 0.76 | 0.50 | 0.76 |
| 14 | VH299806 | 2 | 606 | 606 | 0.64 | 0.82 | 86.63 | 12.87 | 99.50 | 0.37 | 0.68 | 0.28 | 0.61 |
| 15 | VH299807 | 1 | 622 | 622 | 0.15 | 0.15 | 69.94 | 30.06 | 100.00 | 0.27 | 0.44 | 0.18 | 0.39 |
| 16 | VH299900 | 2 | 589 | 589 | 0.64 | 0.79 | 85.06 | 14.09 | 99.15 | 0.33 | 0.62 | 0.38 | 0.68 |
| 17 | VH299901 | 2 | 612 | 612 | 0.69 | 0.77 | 91.01 | 7.35 | 98.37 | 0.27 | 0.58 | 0.19 | 0.51 |
| 18 | VH300054 | 2 | 593 | 593 | 0.55 | 0.75 | 79.60 | 18.04 | 97.64 | 0.37 | 0.67 | 0.51 | 0.81 |
| 19 | VH300055 | 2 | 616 | 616 | 0.91 | 0.96 | 95.13 | 4.87 | 100.00 | 0.55 | 0.82 | 0.59 | 0.82 |
| 20 | VH300080 | 1 | 619 | 619 | 0.89 | 0.89 | 96.28 | 3.72 | 100.00 | 0.23 | 0.42 | 0.20 | 0.40 |

Table 8.G.34 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH300085 | 2 | 597 | 597 | 0.63 | 0.81 | 76.55 | 21.78 | 98.32 | 0.86 | 0.85 | 0.84 | 0.90 |
| 22 | VH300245 | 2 | 605 | 605 | 0.66 | 0.82 | 77.02 | 22.31 | 99.34 | 0.88 | 0.85 | 1.07 | 0.79 |
| 23 | VH300246 | 1 | 613 | 613 | 0.86 | 0.86 | 94.45 | 5.55 | 100.00 | 0.29 | 0.46 | 0.28 | 0.45 |
| 24 | VH300345 | 2 | 618 | 618 | 0.77 | 0.84 | 90.94 | 8.25 | 99.19 | 0.29 | 0.57 | 0.33 | 0.61 |
| 25 | VH945881 | 1 | 630 | 630 | 0.81 | 0.81 | 96.51 | 3.49 | 100.00 | 0.11 | 0.32 | 0.10 | 0.29 |
| 26 | VH945882 | 1 | 607 | 607 | 0.64 | 0.64 | 88.47 | 11.53 | 100.00 | 0.21 | 0.41 | 0.19 | 0.39 |
| 27 | VH945885 | 2 | 611 | 611 | 0.54 | 0.76 | 86.74 | 12.11 | 98.85 | 0.22 | 0.58 | 0.26 | 0.60 |
| 28 | VH945891 | 2 | 607 | 607 | 0.43 | 0.64 | 65.73 | 29.49 | 95.22 | 0.56 | 0.76 | 0.79 | 0.85 |
| N/A | **AVERAGE** | N/A | 604 | 604 | 0.65 | 0.76 | 85.29 | 13.78 | 99.08 | 0.38 | 0.60 | 0.42 | 0.61 |

Table 8.G. Agreement Statistics Between AI and Human Scoring of Short-Answer Items for Grade Eleven—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH299385 | 1 | 1,527 | 1,527 | 0.99 | 0.99 | 99.61 | 0.39 | 100.00 | 0.26 | 0.44 | 0.26 | 0.44 |
| 2 | VH299386 | 2 | 1,521 | 1,521 | 0.81 | 0.86 | 95.33 | 2.96 | 98.29 | 0.24 | 0.61 | 0.21 | 0.57 |
| 3 | VH299387 | 3 | 1,412 | 1,412 | 0.56 | 0.86 | 87.68 | 11.12 | 98.80 | 0.29 | 0.75 | 0.31 | 0.75 |
| 4 | VH299552 | 1 | 1,543 | 1,543 | 0.65 | 0.65 | 87.17 | 12.83 | 100.00 | 0.23 | 0.42 | 0.25 | 0.43 |
| 5 | VH299555 | 2 | 1,527 | 1,527 | 0.68 | 0.85 | 90.90 | 8.32 | 99.21 | 0.24 | 0.61 | 0.28 | 0.63 |
| 6 | VH299659 | 1 | 1,400 | 1,400 | 0.51 | 0.51 | 93.50 | 6.50 | 100.00 | 0.08 | 0.27 | 0.06 | 0.24 |
| 7 | VH299660 | 2 | 1,502 | 1,502 | 0.73 | 0.88 | 96.40 | 3.26 | 99.67 | 0.13 | 0.46 | 0.10 | 0.42 |
| 8 | VH299661 | 2 | 1,506 | 1,506 | 0.71 | 0.79 | 94.02 | 4.45 | 98.47 | 0.17 | 0.51 | 0.16 | 0.49 |
| 9 | VH299662 | 3 | 1,389 | 1,389 | 0.59 | 0.87 | 88.84 | 10.58 | 99.42 | 0.28 | 0.72 | 0.27 | 0.72 |
| 10 | VH299834 | 1 | 1,488 | 1,488 | 0.66 | 0.66 | 88.24 | 11.76 | 100.00 | 0.19 | 0.40 | 0.25 | 0.43 |
| 11 | VH299835 | 1 | 1,545 | 1,545 | 0.96 | 0.96 | 99.03 | 0.97 | 100.00 | 0.15 | 0.35 | 0.15 | 0.36 |
| 12 | VH299836 | 1 | 1,538 | 1,538 | 1.00 | 1.00 | 100.00 | 0.00 | 100.00 | 0.35 | 0.48 | 0.35 | 0.48 |
| 13 | VH299838 | 2 | 1,466 | 1,466 | 0.45 | 0.66 | 85.61 | 13.37 | 98.98 | 0.14 | 0.44 | 0.25 | 0.55 |
| 14 | VH299905 | 1 | 1,470 | 1,470 | 0.64 | 0.64 | 93.20 | 6.80 | 100.00 | 0.10 | 0.30 | 0.11 | 0.31 |
| 15 | VH299910 | 2 | 1,581 | 1,581 | 0.88 | 0.91 | 95.64 | 3.16 | 98.80 | 0.33 | 0.67 | 0.35 | 0.68 |
| 16 | VH299912 | 3 | 1,451 | 1,451 | 0.55 | 0.86 | 90.08 | 8.75 | 98.83 | 0.23 | 0.69 | 0.25 | 0.74 |
| 17 | VH299956 | 1 | 1,428 | 1,428 | 0.73 | 0.73 | 95.03 | 4.97 | 100.00 | 0.10 | 0.30 | 0.10 | 0.30 |
| 18 | VH299958 | 2 | 1,531 | 1,531 | 0.79 | 0.89 | 96.86 | 2.48 | 99.35 | 0.14 | 0.49 | 0.13 | 0.46 |
| 19 | VH299961 | 2 | 1,518 | 1,518 | 0.91 | 0.94 | 96.64 | 2.57 | 99.21 | 0.33 | 0.68 | 0.35 | 0.69 |
| 20 | VH299965 | 3 | 1,392 | 1,392 | 0.64 | 0.92 | 90.88 | 8.48 | 99.35 | 0.29 | 0.80 | 0.31 | 0.82 |

Table 8.G.35 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH299976 | 2 | 1,448 | 1,448 | 0.69 | 0.85 | 82.32 | 16.85 | 99.17 | 0.62 | 0.83 | 0.67 | 0.82 |
| 22 | VH299977 | 2 | 1,445 | 1,445 | 0.53 | 0.63 | 71.90 | 26.57 | 98.48 | 0.75 | 0.71 | 0.64 | 0.60 |
| 23 | VH299980 | 2 | 1,453 | 1,453 | 0.53 | 0.68 | 71.64 | 26.57 | 98.21 | 0.70 | 0.74 | 0.53 | 0.68 |
| 24 | VH300129 | 1 | 1,398 | 1,398 | 0.58 | 0.58 | 93.35 | 6.65 | 100.00 | 0.09 | 0.28 | 0.09 | 0.28 |
| 25 | VH300132 | 2 | 1,512 | 1,512 | 0.78 | 0.84 | 94.38 | 4.37 | 98.74 | 0.21 | 0.54 | 0.20 | 0.53 |
| 26 | VH300133 | 3 | 1,413 | 1,413 | 0.61 | 0.89 | 89.10 | 9.91 | 99.01 | 0.31 | 0.80 | 0.31 | 0.79 |
| 27 | VH300174 | 1 | 1,481 | 1,481 | 0.68 | 0.68 | 88.66 | 11.34 | 100.00 | 0.19 | 0.39 | 0.28 | 0.45 |
| 28 | VH300176 | 1 | 1,543 | 1,543 | 0.98 | 0.98 | 99.29 | 0.71 | 100.00 | 0.25 | 0.44 | 0.25 | 0.43 |
| 29 | VH300177 | 2 | 1,533 | 1,533 | 0.97 | 0.97 | 98.56 | 0.65 | 99.22 | 0.44 | 0.77 | 0.44 | 0.77 |
| 30 | VH300178 | 3 | 1,420 | 1,420 | 0.58 | 0.87 | 88.31 | 10.14 | 98.45 | 0.29 | 0.76 | 0.33 | 0.82 |
| 31 | VH300222 | 2 | 1,497 | 1,497 | 0.68 | 0.85 | 81.23 | 18.57 | 99.80 | 0.62 | 0.84 | 0.64 | 0.78 |
| 32 | VH300224 | 2 | 1,503 | 1,503 | 0.50 | 0.62 | 69.86 | 28.81 | 98.67 | 0.73 | 0.71 | 0.72 | 0.62 |
| 33 | VH300226 | 2 | 1,504 | 1,504 | 0.46 | 0.61 | 68.95 | 29.19 | 98.14 | 0.66 | 0.71 | 0.41 | 0.62 |
| 34 | VH945812 | 1 | 1,550 | 1,550 | 0.83 | 0.83 | 92.97 | 7.03 | 100.00 | 0.30 | 0.46 | 0.31 | 0.46 |
| 35 | VH945814 | 2 | 1,606 | 1,606 | 0.64 | 0.78 | 91.97 | 7.47 | 99.44 | 0.17 | 0.50 | 0.15 | 0.43 |
| 36 | VH945894 | 1 | 1,493 | 1,493 | 0.72 | 0.72 | 88.35 | 11.65 | 100.00 | 0.27 | 0.44 | 0.33 | 0.47 |
| 37 | VH945897 | 2 | 1,473 | 1,473 | 0.64 | 0.82 | 81.13 | 15.82 | 96.95 | 0.56 | 0.85 | 0.69 | 0.88 |
| 38 | VH945898 | 2 | 1,448 | 1,448 | 0.57 | 0.75 | 74.24 | 19.96 | 94.20 | 0.72 | 0.89 | 0.96 | 0.94 |
| 39 | VH953747 | 1 | 1,514 | 1,514 | 0.73 | 0.73 | 88.51 | 11.49 | 100.00 | 0.28 | 0.45 | 0.32 | 0.47 |
| 40 | VH953750 | 2 | 1,422 | 1,422 | 0.53 | 0.75 | 74.12 | 23.42 | 97.54 | 0.48 | 0.78 | 0.70 | 0.83 |
| N/A | **AVERAGE** | N/A | 1,485 | 1,485 | 0.69 | 0.80 | 88.84 | 10.27 | 99.11 | 0.32 | 0.58 | 0.34 | 0.58 |

**Notes and Legend:**

The following is true for table 8.G.36 through table 8.G.39:

* Numbers indicate students who received valid ratings from AI machine (Rater 1).
* Rater 2 is the human rater.
* Dimension types are as follows:
* Organization/Purpose (POR)
* Development/Elaboration (DEV)
* Evidence/Elaboration (EEL)
* Convention (COV)

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings Between AI and Human-Scoring Items for Grade Three—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295222 | 2 | COV | 283 | 283 | 0.26 | 0.45 | 52.65 | 43.82 | 96.47 | 0.99 | 0.70 | 1.01 | 0.75 |
| 2 | VH295344 | 2 | COV | 317 | 317 | 0.35 | 0.53 | 58.68 | 39.12 | 97.79 | 0.90 | 0.73 | 1.05 | 0.68 |
| 3 | VH295659 | 2 | COV | 321 | 321 | 0.29 | 0.51 | 55.14 | 43.61 | 98.75 | 0.86 | 0.73 | 1.12 | 0.62 |
| 4 | VH295684 | 2 | COV | 261 | 261 | 0.39 | 0.60 | 61.69 | 37.93 | 99.62 | 0.76 | 0.72 | 0.87 | 0.68 |
| 5 | VH295880 | 2 | COV | 241 | 241 | 0.36 | 0.63 | 56.85 | 42.32 | 99.17 | 0.85 | 0.76 | 1.17 | 0.76 |
| 6 | VH295912 | 2 | COV | 279 | 279 | 0.29 | 0.52 | 53.05 | 43.73 | 96.77 | 0.81 | 0.75 | 1.05 | 0.74 |
| 7 | VH295684 | 4 | DVE | 261 | 261 | 0.31 | 0.65 | 53.26 | 45.98 | 99.23 | 1.54 | 0.68 | 1.70 | 0.96 |
| 8 | VH295880 | 4 | DVE | 241 | 241 | 0.37 | 0.71 | 56.43 | 41.49 | 97.93 | 1.66 | 0.76 | 1.78 | 1.06 |
| 9 | VH295222 | 3 | EEL | 283 | 283 | 0.27 | 0.52 | 54.42 | 43.11 | 97.53 | 1.42 | 0.60 | 1.04 | 0.77 |
| 10 | VH295344 | 3 | EEL | 317 | 317 | 0.40 | 0.60 | 64.98 | 34.07 | 99.05 | 1.52 | 0.66 | 1.47 | 0.72 |

Table 8.G.36 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 11 | VH295659 | 3 | EEL | 321 | 321 | 0.42 | 0.59 | 67.60 | 30.84 | 98.44 | 1.51 | 0.63 | 1.31 | 0.69 |
| 12 | VH295912 | 3 | EEL | 279 | 279 | 0.25 | 0.46 | 54.48 | 43.37 | 97.85 | 1.42 | 0.63 | 1.23 | 0.73 |
| 13 | VH295222 | 3 | POR | 283 | 283 | 0.20 | 0.47 | 53.00 | 44.88 | 97.88 | 1.37 | 0.59 | 0.99 | 0.72 |
| 14 | VH295344 | 3 | POR | 317 | 317 | 0.37 | 0.58 | 63.09 | 35.65 | 98.74 | 1.51 | 0.68 | 1.46 | 0.72 |
| 15 | VH295659 | 3 | POR | 321 | 321 | 0.41 | 0.60 | 65.42 | 33.33 | 98.75 | 1.52 | 0.65 | 1.46 | 0.73 |
| 16 | VH295684 | 4 | POR | 261 | 261 | 0.30 | 0.65 | 52.11 | 45.59 | 97.70 | 1.62 | 0.71 | 1.81 | 1.02 |
| 17 | VH295880 | 4 | POR | 241 | 241 | 0.41 | 0.74 | 58.92 | 39.83 | 98.76 | 1.71 | 0.76 | 1.83 | 1.06 |
| 18 | VH295912 | 3 | POR | 279 | 279 | 0.28 | 0.53 | 57.35 | 40.86 | 98.21 | 1.44 | 0.63 | 1.23 | 0.76 |
| N/A | **AVERAGE** | N/A | N/A | 284 | 284 | 0.33 | 0.57 | 57.73 | 40.53 | 98.26 | 1.30 | 0.69 | 1.31 | 0.79 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings Between AI and Human-Scoring Items for Grade Six—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295316 | 2 | COV | 409 | 409 | 0.39 | 0.60 | 59.41 | 37.65 | 97.07 | 1.38 | 0.78 | 1.07 | 0.73 |
| 2 | VH295439 | 2 | COV | 366 | 366 | 0.40 | 0.57 | 60.93 | 36.07 | 96.99 | 1.25 | 0.73 | 1.05 | 0.74 |
| 3 | VH295557 | 2 | COV | 350 | 350 | 0.46 | 0.62 | 64.86 | 31.71 | 96.57 | 1.27 | 0.71 | 1.13 | 0.82 |
| 4 | VH295583 | 2 | COV | 427 | 427 | 0.32 | 0.43 | 55.27 | 32.79 | 88.06 | 1.50 | 0.71 | 1.04 | 0.83 |
| 5 | VH295984 | 2 | COV | 420 | 420 | 0.44 | 0.61 | 66.90 | 29.05 | 95.95 | 1.50 | 0.70 | 1.28 | 0.79 |
| 6 | VH295439 | 4 | DVE | 366 | 366 | 0.51 | 0.72 | 63.66 | 33.06 | 96.72 | 2.18 | 0.91 | 2.11 | 1.12 |
| 7 | VH295557 | 4 | DVE | 350 | 350 | 0.40 | 0.71 | 54.86 | 43.14 | 98.00 | 2.22 | 0.94 | 2.30 | 1.18 |
| 8 | VH295316 | 4 | EEL | 409 | 409 | 0.39 | 0.70 | 57.95 | 40.34 | 98.29 | 1.88 | 0.78 | 1.83 | 0.98 |
| 9 | VH295583 | 4 | EEL | 427 | 427 | 0.29 | 0.61 | 49.88 | 44.26 | 94.15 | 1.93 | 0.78 | 1.48 | 0.96 |
| 10 | VH295984 | 4 | EEL | 420 | 420 | 0.52 | 0.74 | 69.05 | 30.48 | 99.52 | 1.92 | 0.81 | 1.80 | 0.76 |
| 11 | VH295316 | 4 | POR | 409 | 409 | 0.38 | 0.68 | 57.46 | 39.85 | 97.31 | 1.88 | 0.78 | 1.78 | 0.98 |
| 12 | VH295439 | 4 | POR | 366 | 366 | 0.51 | 0.73 | 64.21 | 32.51 | 96.72 | 2.18 | 0.91 | 2.16 | 1.12 |
| 13 | VH295557 | 4 | POR | 350 | 350 | 0.41 | 0.72 | 55.14 | 43.14 | 98.29 | 2.22 | 0.94 | 2.29 | 1.19 |
| 14 | VH295583 | 4 | POR | 427 | 427 | 0.34 | 0.66 | 53.86 | 41.45 | 95.32 | 1.92 | 0.78 | 1.73 | 1.05 |
| 15 | VH295984 | 4 | POR | 420 | 420 | 0.53 | 0.77 | 68.81 | 30.95 | 99.76 | 1.94 | 0.81 | 1.94 | 0.84 |
| N/A | **AVERAGE** | N/A | N/A | 394 | 394 | 0.42 | 0.66 | 60.15 | 36.43 | 96.58 | 1.81 | 0.80 | 1.67 | 0.94 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings Between AI and Human-Scoring Items for Grade Seven—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295309 | 2 | COV | 358 | 358 | 0.54 | 0.69 | 72.07 | 27.09 | 99.16 | 1.45 | 0.63 | 1.26 | 0.74 |
| 2 | VH295309 | 3 | EEL | 358 | 358 | 0.68 | 0.82 | 80.45 | 19.27 | 99.72 | 1.72 | 0.76 | 1.61 | 0.74 |
| 3 | VH295309 | 3 | POR | 358 | 358 | 0.68 | 0.82 | 80.73 | 18.99 | 99.72 | 1.73 | 0.76 | 1.61 | 0.74 |
| N/A | **AVERAGE** | N/A | N/A | 358 | 358 | 0.63 | 0.78 | 77.75 | 21.78 | 99.53 | 1.63 | 0.72 | 1.49 | 0.74 |

Table 8.G. Interrater Reliability and Descriptive Statistics for the Ratings Between AI and Human-Scoring Items for Grade Eleven—ELA WER

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 1 | VH295245 | 2 | COV | 821 | 821 | 0.43 | 0.65 | 63.46 | 33.74 | 97.20 | 1.36 | 0.74 | 1.12 | 0.83 |
| 2 | VH295252 | 2 | COV | 806 | 806 | 0.46 | 0.64 | 65.76 | 31.27 | 97.02 | 1.33 | 0.73 | 1.23 | 0.81 |
| 3 | VH295286 | 2 | COV | 840 | 840 | 0.36 | 0.55 | 56.19 | 38.10 | 94.29 | 1.32 | 0.73 | 0.90 | 0.81 |
| 4 | VH295365 | 2 | COV | 784 | 784 | 0.46 | 0.67 | 65.31 | 32.91 | 98.21 | 1.29 | 0.73 | 1.14 | 0.80 |
| 5 | VH295391 | 2 | COV | 787 | 787 | 0.46 | 0.67 | 65.06 | 32.15 | 97.20 | 1.25 | 0.77 | 1.21 | 0.86 |
| 6 | VH295501 | 2 | COV | 798 | 798 | 0.44 | 0.66 | 64.16 | 33.08 | 97.24 | 1.33 | 0.76 | 1.13 | 0.83 |
| 7 | VH295550 | 2 | COV | 778 | 778 | 0.47 | 0.68 | 66.32 | 31.11 | 97.43 | 1.33 | 0.75 | 1.16 | 0.84 |
| 8 | VH295617 | 2 | COV | 816 | 816 | 0.40 | 0.61 | 59.80 | 37.25 | 97.06 | 1.31 | 0.73 | 0.99 | 0.79 |
| 9 | VH295652 | 2 | COV | 840 | 840 | 0.33 | 0.56 | 55.60 | 40.24 | 95.83 | 1.36 | 0.73 | 1.00 | 0.80 |
| 10 | VH295700 | 2 | COV | 820 | 820 | 0.41 | 0.61 | 60.98 | 35.49 | 96.46 | 1.31 | 0.72 | 1.02 | 0.82 |
| 11 | VH295726 | 2 | COV | 814 | 814 | 0.36 | 0.58 | 57.00 | 39.80 | 96.81 | 1.30 | 0.75 | 0.96 | 0.76 |
| 12 | VH295747 | 2 | COV | 755 | 755 | 0.44 | 0.66 | 62.91 | 34.30 | 97.22 | 1.29 | 0.74 | 1.07 | 0.85 |
| 13 | VH295803 | 2 | COV | 796 | 796 | 0.43 | 0.63 | 63.32 | 34.42 | 97.74 | 1.32 | 0.71 | 1.13 | 0.80 |
| 14 | VH295816 | 2 | COV | 767 | 767 | 0.39 | 0.63 | 58.67 | 38.20 | 96.87 | 1.25 | 0.74 | 0.99 | 0.86 |
| 15 | VH295884 | 2 | COV | 816 | 816 | 0.44 | 0.64 | 63.60 | 32.72 | 96.32 | 1.34 | 0.75 | 1.11 | 0.84 |
| 16 | VH295927 | 2 | COV | 849 | 849 | 0.39 | 0.62 | 61.01 | 36.98 | 98.00 | 1.35 | 0.70 | 1.18 | 0.81 |
| 17 | VH296004 | 2 | COV | 801 | 801 | 0.44 | 0.68 | 64.29 | 33.71 | 98.00 | 1.32 | 0.75 | 1.18 | 0.84 |
| 18 | VH296053 | 2 | COV | 824 | 824 | 0.54 | 0.73 | 70.39 | 28.76 | 99.15 | 1.31 | 0.75 | 1.18 | 0.80 |
| 19 | VH295245 | 4 | EEL | 821 | 821 | 0.52 | 0.80 | 65.16 | 33.86 | 99.03 | 2.07 | 0.92 | 1.93 | 1.02 |
| 20 | VH295252 | 4 | EEL | 806 | 806 | 0.43 | 0.76 | 58.93 | 39.21 | 98.14 | 1.93 | 0.91 | 2.13 | 1.04 |

Table 8.G.39 *(continuation one)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 21 | VH295286 | 4 | EEL | 840 | 840 | 0.49 | 0.79 | 63.21 | 35.48 | 98.69 | 2.03 | 0.94 | 1.97 | 1.05 |
| 22 | VH295365 | 4 | EEL | 784 | 784 | 0.45 | 0.78 | 59.57 | 38.39 | 97.96 | 1.94 | 0.90 | 2.09 | 1.13 |
| 23 | VH295391 | 4 | EEL | 787 | 787 | 0.50 | 0.78 | 64.68 | 34.18 | 98.86 | 1.96 | 0.94 | 1.90 | 0.93 |
| 24 | VH295501 | 4 | EEL | 798 | 798 | 0.26 | 0.68 | 46.12 | 50.00 | 96.12 | 2.08 | 0.98 | 1.56 | 0.91 |
| 25 | VH295550 | 4 | EEL | 778 | 778 | 0.50 | 0.79 | 64.40 | 34.19 | 98.59 | 1.99 | 0.90 | 2.10 | 1.03 |
| 26 | VH295617 | 4 | EEL | 816 | 816 | 0.45 | 0.77 | 60.42 | 38.11 | 98.53 | 1.92 | 0.90 | 1.81 | 1.05 |
| 27 | VH295652 | 4 | EEL | 840 | 840 | 0.35 | 0.71 | 53.93 | 43.57 | 97.50 | 2.07 | 0.98 | 1.68 | 0.87 |
| 28 | VH295700 | 4 | EEL | 820 | 820 | 0.52 | 0.81 | 65.37 | 33.78 | 99.15 | 1.97 | 0.93 | 2.02 | 1.05 |
| 29 | VH295726 | 4 | EEL | 814 | 814 | 0.39 | 0.74 | 56.02 | 43.00 | 99.02 | 1.87 | 0.89 | 1.82 | 1.02 |
| 30 | VH295747 | 4 | EEL | 755 | 755 | 0.37 | 0.77 | 53.25 | 44.50 | 97.75 | 1.93 | 0.97 | 1.77 | 1.17 |
| 31 | VH295803 | 4 | EEL | 796 | 796 | 0.37 | 0.75 | 54.52 | 43.97 | 98.49 | 1.95 | 0.91 | 1.98 | 1.09 |
| 32 | VH295816 | 4 | EEL | 767 | 767 | 0.45 | 0.81 | 60.63 | 39.11 | 99.74 | 1.90 | 0.92 | 1.73 | 1.10 |
| 33 | VH295884 | 4 | EEL | 816 | 816 | 0.48 | 0.80 | 61.03 | 37.75 | 98.77 | 2.10 | 0.97 | 2.07 | 1.11 |
| 34 | VH295927 | 4 | EEL | 849 | 849 | 0.51 | 0.76 | 65.61 | 33.10 | 98.70 | 1.94 | 0.93 | 1.98 | 0.85 |
| 35 | VH296004 | 4 | EEL | 801 | 801 | 0.49 | 0.78 | 63.42 | 35.08 | 98.50 | 2.02 | 0.94 | 1.97 | 1.01 |
| 36 | VH296053 | 4 | EEL | 824 | 824 | 0.46 | 0.80 | 59.83 | 38.11 | 97.94 | 2.08 | 0.97 | 2.07 | 1.18 |
| 37 | VH295245 | 4 | POR | 821 | 821 | 0.40 | 0.72 | 57.13 | 40.56 | 97.69 | 2.12 | 0.92 | 1.75 | 0.91 |
| 38 | VH295252 | 4 | POR | 806 | 806 | 0.51 | 0.78 | 65.01 | 34.00 | 99.01 | 2.02 | 0.89 | 2.07 | 0.97 |
| 39 | VH295286 | 4 | POR | 840 | 840 | 0.49 | 0.79 | 62.86 | 36.07 | 98.93 | 2.14 | 0.91 | 2.04 | 1.06 |
| 40 | VH295365 | 4 | POR | 784 | 784 | 0.44 | 0.76 | 59.44 | 39.80 | 99.23 | 2.04 | 0.87 | 2.01 | 1.03 |

Table 8.G.39 *(continuation two)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Rater 1 N** | **Rater 2 N** | **Kappa** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent adjacent** | **Percent Exact + Adjacent** | **Rater 1 Item Score Mean** | **Rater 1 Item Score SD** | **Rater 2 Item Score Mean** | **Rater 2 Item Score SD** |
| 41 | VH295391 | 4 | POR | 787 | 787 | 0.53 | 0.80 | 66.33 | 32.91 | 99.24 | 1.99 | 0.94 | 1.86 | 0.96 |
| 42 | VH295501 | 4 | POR | 798 | 798 | 0.32 | 0.74 | 50.25 | 48.37 | 98.62 | 2.09 | 0.98 | 1.67 | 0.97 |
| 43 | VH295550 | 4 | POR | 778 | 778 | 0.50 | 0.79 | 63.75 | 34.83 | 98.59 | 2.03 | 0.90 | 2.06 | 1.05 |
| 44 | VH295617 | 4 | POR | 816 | 816 | 0.48 | 0.78 | 63.48 | 35.91 | 99.39 | 2.02 | 0.88 | 1.84 | 0.98 |
| 45 | VH295652 | 4 | POR | 840 | 840 | 0.48 | 0.79 | 61.31 | 36.67 | 97.98 | 2.15 | 0.94 | 2.11 | 1.12 |
| 46 | VH295700 | 4 | POR | 820 | 820 | 0.55 | 0.81 | 67.93 | 31.59 | 99.51 | 2.04 | 0.91 | 1.98 | 1.01 |
| 47 | VH295726 | 4 | POR | 814 | 814 | 0.44 | 0.78 | 58.48 | 40.29 | 98.77 | 2.02 | 0.89 | 1.97 | 1.11 |
| 48 | VH295747 | 4 | POR | 755 | 755 | 0.45 | 0.79 | 58.81 | 38.81 | 97.62 | 2.01 | 0.96 | 1.86 | 1.18 |
| 49 | VH295803 | 4 | POR | 796 | 796 | 0.41 | 0.76 | 57.66 | 40.83 | 98.49 | 2.06 | 0.91 | 1.97 | 1.06 |
| 50 | VH295816 | 4 | POR | 767 | 767 | 0.40 | 0.78 | 55.28 | 43.81 | 99.09 | 2.01 | 0.92 | 1.92 | 1.18 |
| 51 | VH295884 | 4 | POR | 816 | 816 | 0.45 | 0.81 | 58.58 | 40.69 | 99.26 | 2.20 | 0.95 | 2.14 | 1.20 |
| 52 | VH295927 | 4 | POR | 849 | 849 | 0.48 | 0.76 | 62.78 | 34.98 | 97.76 | 2.11 | 0.90 | 2.20 | 1.02 |
| 53 | VH296004 | 4 | POR | 801 | 801 | 0.49 | 0.79 | 63.17 | 36.20 | 99.38 | 2.09 | 0.93 | 2.01 | 0.99 |
| 54 | VH296053 | 4 | POR | 824 | 824 | 0.43 | 0.79 | 57.52 | 40.90 | 98.42 | 2.14 | 0.93 | 2.12 | 1.19 |
| N/A | **AVERAGE** | N/A | N/A | 806 | 806 | 0.44 | 0.73 | 60.92 | 37.16 | 98.08 | 1.79 | 0.86 | 1.66 | 0.97 |

### Appendix 8.H: Analyses in Support of Validity Evidence

Table 8.H. Total Testing Time (In Minutes) at Each Ability Level—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 3 | Q 1 | 19,761 | 82.18 | 62.08 | 2.09 | 878.97 | 9.04 | 24.48 | 41.09 | 67.08 | 104.69 | 157.05 | 309.42 |
| 3 | Q 2 | 19,958 | 105.98 | 67.21 | 3.39 | 838.60 | 21.41 | 43.65 | 61.62 | 89.26 | 131.39 | 186.01 | 354.91 |
| 3 | Q 3 | 20,231 | 114.12 | 64.59 | 12.13 | 782.91 | 29.93 | 52.55 | 70.67 | 98.59 | 140.43 | 193.16 | 345.80 |
| 3 | Q 4 | 20,049 | 119.42 | 65.28 | 16.14 | 938.40 | 35.80 | 57.90 | 76.15 | 104.42 | 145.09 | 197.71 | 358.32 |
| 4 | Q 1 | 20,523 | 92.17 | 67.98 | 2.93 | 989.72 | 9.68 | 28.06 | 46.65 | 75.41 | 117.61 | 176.19 | 336.98 |
| 4 | Q 2 | 20,423 | 116.87 | 74.03 | 7.95 | 1193.11 | 25.70 | 48.65 | 68.39 | 98.62 | 144.03 | 204.05 | 387.71 |
| 4 | Q 3 | 20,895 | 125.13 | 72.19 | 11.41 | 852.10 | 33.42 | 57.97 | 77.05 | 107.43 | 152.53 | 212.52 | 387.72 |
| 4 | Q 4 | 20,632 | 128.66 | 69.82 | 13.84 | 887.48 | 38.80 | 62.50 | 82.08 | 112.09 | 156.93 | 214.11 | 377.52 |
| 5 | Q 1 | 21,014 | 96.87 | 72.36 | 1.86 | 844.90 | 9.82 | 30.44 | 49.98 | 79.02 | 121.34 | 182.78 | 368.41 |
| 5 | Q 2 | 20,786 | 123.21 | 79.33 | 5.50 | 1174.08 | 28.98 | 53.46 | 72.75 | 102.86 | 149.22 | 214.72 | 424.90 |
| 5 | Q 3 | 21,116 | 130.07 | 76.78 | 15.11 | 1272.69 | 36.73 | 60.82 | 80.27 | 110.64 | 157.23 | 219.34 | 421.15 |
| 5 | Q 4 | 21,221 | 133.95 | 72.70 | 13.62 | 1095.18 | 42.10 | 66.39 | 86.77 | 117.10 | 160.69 | 218.91 | 402.15 |
| 6 | Q 1 | 21,537 | 118.50 | 93.36 | 2.79 | 2245.23 | 12.16 | 37.00 | 60.62 | 96.28 | 147.31 | 220.95 | 477.46 |
| 6 | Q 2 | 21,817 | 147.90 | 97.96 | 8.28 | 1642.22 | 33.04 | 62.32 | 86.75 | 123.66 | 178.67 | 259.34 | 506.91 |
| 6 | Q 3 | 22,049 | 157.29 | 97.44 | 17.05 | 2471.40 | 46.31 | 73.99 | 97.19 | 134.17 | 187.61 | 264.10 | 520.37 |
| 6 | Q 4 | 21,802 | 162.58 | 86.22 | 25.72 | 1272.53 | 53.39 | 83.58 | 107.29 | 141.38 | 193.14 | 264.55 | 484.60 |
| 7 | Q 1 | 23,977 | 114.47 | 90.42 | 1.92 | 1487.09 | 10.41 | 35.04 | 58.45 | 92.09 | 142.66 | 213.93 | 460.32 |
| 7 | Q 2 | 24,045 | 141.82 | 91.54 | 9.19 | 1460.35 | 34.42 | 61.59 | 84.23 | 118.29 | 171.10 | 245.78 | 491.95 |
| 7 | Q 3 | 24,238 | 153.30 | 92.70 | 19.54 | 1886.87 | 45.06 | 74.04 | 96.60 | 130.02 | 181.77 | 255.66 | 504.37 |
| 7 | Q 4 | 24,446 | 165.88 | 89.13 | 22.47 | 1641.46 | 57.95 | 86.89 | 110.76 | 145.02 | 194.49 | 262.45 | 505.69 |

Table 8.H.1 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 8 | Q 1 | 24,454 | 108.08 | 85.05 | 1.99 | 1090.63 | 8.36 | 31.68 | 53.75 | 86.91 | 136.42 | 204.10 | 429.51 |
| 8 | Q 2 | 24,561 | 137.60 | 90.81 | 7.12 | 1835.79 | 32.25 | 59.01 | 80.89 | 114.92 | 165.09 | 239.34 | 472.81 |
| 8 | Q 3 | 24,475 | 151.91 | 90.85 | 18.96 | 1800.03 | 45.97 | 73.04 | 96.06 | 129.82 | 180.25 | 253.90 | 479.48 |
| 8 | Q 4 | 24,729 | 164.37 | 85.74 | 28.22 | 1402.69 | 57.15 | 87.13 | 110.84 | 144.42 | 192.47 | 260.84 | 484.80 |
| 11 | Q 1 | 51,498 | 87.33 | 65.02 | 1.25 | 1421.80 | 5.04 | 24.46 | 44.19 | 73.93 | 113.27 | 162.69 | 318.05 |
| 11 | Q 2 | 51,650 | 119.84 | 66.16 | 7.51 | 1055.92 | 30.01 | 55.34 | 76.48 | 106.81 | 146.14 | 196.34 | 353.14 |
| 11 | Q 3 | 51,978 | 136.77 | 67.42 | 15.45 | 1518.69 | 44.54 | 72.02 | 93.33 | 123.27 | 162.53 | 214.07 | 374.53 |
| 11 | Q 4 | 51,803 | 147.70 | 64.65 | 13.13 | 1136.58 | 57.80 | 85.91 | 106.82 | 135.02 | 171.27 | 221.40 | 377.08 |

Table 8.H. Total Testing Time (In Minutes) at Each Ability Level—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 3 | Q 1 | 21,161 | 57.18 | 40.18 | 2.79 | 540.01 | 9.23 | 20.89 | 31.19 | 47.07 | 70.84 | 105.00 | 206.99 |
| 3 | Q 2 | 21,323 | 69.72 | 43.76 | 6.58 | 794.85 | 18.23 | 30.70 | 41.63 | 58.76 | 84.57 | 120.75 | 233.22 |
| 3 | Q 3 | 21,088 | 75.25 | 45.23 | 7.62 | 907.04 | 21.94 | 35.09 | 46.14 | 63.99 | 91.17 | 128.15 | 238.44 |
| 3 | Q 4 | 21,556 | 75.63 | 42.54 | 12.80 | 518.66 | 22.87 | 36.23 | 47.61 | 65.32 | 91.27 | 126.89 | 231.80 |
| 4 | Q 1 | 21,777 | 61.36 | 46.00 | 3.45 | 1157.74 | 9.58 | 21.93 | 32.81 | 49.92 | 75.89 | 112.22 | 231.27 |
| 4 | Q 2 | 21,942 | 72.59 | 48.00 | 5.53 | 1004.31 | 18.95 | 31.81 | 42.69 | 60.49 | 86.81 | 125.26 | 256.40 |
| 4 | Q 3 | 21,846 | 78.06 | 48.10 | 9.63 | 1071.17 | 23.05 | 36.53 | 47.98 | 65.89 | 92.98 | 132.48 | 251.65 |
| 4 | Q 4 | 22,101 | 79.12 | 45.09 | 13.30 | 829.29 | 24.61 | 38.55 | 50.04 | 68.28 | 94.94 | 131.86 | 241.26 |
| 5 | Q 1 | 22,082 | 71.42 | 55.73 | 1.73 | 721.03 | 8.51 | 23.50 | 36.55 | 56.86 | 88.59 | 134.65 | 282.45 |
| 5 | Q 2 | 22,226 | 85.19 | 61.30 | 2.66 | 986.70 | 18.76 | 34.74 | 48.11 | 69.15 | 102.32 | 150.86 | 318.88 |
| 5 | Q 3 | 22,595 | 94.35 | 61.12 | 8.70 | 965.63 | 25.21 | 42.36 | 55.97 | 78.56 | 113.41 | 162.92 | 325.89 |
| 5 | Q 4 | 22,316 | 102.38 | 59.97 | 11.67 | 1182.21 | 30.71 | 48.28 | 63.35 | 87.96 | 124.03 | 172.57 | 314.24 |
| 6 | Q 1 | 21,582 | 78.06 | 61.41 | 1.87 | 1524.88 | 9.38 | 26.30 | 41.01 | 63.49 | 96.21 | 143.35 | 303.49 |
| 6 | Q 2 | 21,751 | 93.75 | 64.43 | 8.61 | 1070.89 | 22.96 | 40.50 | 54.60 | 77.05 | 111.63 | 164.37 | 333.35 |
| 6 | Q 3 | 21,832 | 98.80 | 64.74 | 11.16 | 1052.43 | 29.16 | 46.09 | 60.20 | 82.57 | 116.80 | 167.43 | 346.04 |
| 6 | Q 4 | 21,974 | 104.18 | 59.43 | 16.02 | 1039.70 | 33.35 | 51.81 | 66.85 | 89.82 | 124.31 | 169.92 | 330.13 |
| 7 | Q 1 | 24,003 | 67.05 | 53.32 | 1.84 | 1148.96 | 7.31 | 21.75 | 34.78 | 53.96 | 83.21 | 125.46 | 260.13 |
| 7 | Q 2 | 24,156 | 79.10 | 56.83 | 4.36 | 1315.92 | 18.03 | 33.16 | 45.21 | 64.31 | 94.79 | 139.41 | 293.62 |
| 7 | Q 3 | 24,176 | 86.22 | 55.88 | 7.41 | 1278.32 | 24.05 | 38.85 | 51.48 | 71.99 | 103.52 | 148.10 | 292.97 |
| 7 | Q 4 | 24,193 | 95.03 | 53.65 | 13.07 | 1050.00 | 29.00 | 46.49 | 60.61 | 82.53 | 114.07 | 156.05 | 289.01 |

Table 8.H.2 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 8 | Q 1 | 24,204 | 69.41 | 58.79 | 2.03 | 1205.72 | 5.83 | 20.02 | 33.88 | 54.64 | 86.57 | 131.24 | 297.83 |
| 8 | Q 2 | 24,295 | 81.53 | 59.15 | 3.96 | 1926.45 | 15.95 | 32.39 | 45.81 | 66.49 | 99.03 | 145.52 | 297.65 |
| 8 | Q 3 | 24,670 | 93.20 | 63.92 | 3.18 | 3396.06 | 24.39 | 41.87 | 55.81 | 77.60 | 111.72 | 160.16 | 322.44 |
| 8 | Q 4 | 24,395 | 105.57 | 59.55 | 15.56 | 1842.42 | 33.73 | 53.13 | 67.93 | 90.86 | 125.37 | 173.24 | 320.90 |
| 11 | Q 1 | 49,631 | 53.73 | 40.69 | 1.13 | 584.51 | 3.62 | 14.33 | 26.63 | 44.85 | 69.91 | 101.20 | 199.55 |
| 11 | Q 2 | 49,472 | 72.56 | 46.16 | 1.78 | 1253.66 | 12.37 | 29.19 | 42.90 | 62.82 | 89.91 | 125.19 | 239.21 |
| 11 | Q 3 | 50,122 | 88.29 | 49.23 | 4.76 | 1138.59 | 21.76 | 41.37 | 56.28 | 77.86 | 107.42 | 145.62 | 261.14 |
| 11 | Q 4 | 49,957 | 100.74 | 47.87 | 7.91 | 895.66 | 33.49 | 54.26 | 69.52 | 91.19 | 119.48 | 157.14 | 269.46 |

Table 8.H. CAT Testing Time (In Minutes) at Each Ability Level—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 3 | Q 1 | 19,761 | 34.57 | 24.34 | 1.34 | 394.11 | 4.15 | 11.03 | 18.37 | 29.50 | 44.34 | 63.16 | 119.40 |
| 3 | Q 2 | 19,958 | 45.63 | 25.81 | 2.01 | 329.80 | 10.82 | 21.15 | 29.03 | 40.18 | 55.15 | 75.46 | 139.75 |
| 3 | Q 3 | 20,231 | 48.00 | 24.28 | 6.76 | 374.34 | 15.91 | 25.15 | 32.23 | 42.54 | 57.14 | 76.79 | 134.89 |
| 3 | Q 4 | 20,049 | 45.52 | 22.42 | 9.37 | 386.32 | 16.81 | 24.77 | 31.03 | 40.36 | 53.61 | 71.91 | 123.85 |
| 4 | Q 1 | 20,523 | 38.89 | 27.01 | 1.15 | 423.18 | 4.29 | 12.66 | 21.09 | 33.52 | 49.05 | 70.31 | 133.19 |
| 4 | Q 2 | 20,423 | 49.21 | 28.54 | 1.52 | 586.11 | 12.24 | 23.48 | 31.68 | 43.05 | 58.95 | 80.24 | 150.28 |
| 4 | Q 3 | 20,895 | 49.47 | 25.54 | 5.19 | 466.99 | 16.75 | 26.11 | 33.51 | 43.80 | 58.34 | 78.35 | 137.88 |
| 4 | Q 4 | 20,632 | 46.27 | 23.00 | 8.21 | 360.82 | 17.25 | 25.33 | 31.74 | 41.12 | 54.32 | 71.74 | 131.49 |
| 5 | Q 1 | 21,014 | 41.98 | 30.04 | 1.13 | 588.53 | 4.40 | 13.96 | 23.31 | 35.99 | 52.39 | 74.31 | 150.03 |
| 5 | Q 2 | 20,786 | 51.10 | 29.85 | 2.24 | 538.53 | 14.05 | 25.14 | 33.06 | 44.17 | 60.46 | 83.55 | 159.75 |
| 5 | Q 3 | 21,116 | 50.29 | 27.29 | 4.73 | 560.85 | 17.42 | 26.60 | 33.68 | 43.88 | 58.85 | 79.36 | 152.04 |
| 5 | Q 4 | 21,221 | 46.93 | 24.20 | 7.53 | 395.78 | 17.42 | 25.65 | 32.09 | 41.25 | 54.87 | 73.37 | 137.82 |
| 6 | Q 1 | 21,537 | 59.75 | 45.42 | 2.05 | 724.07 | 5.77 | 19.28 | 31.95 | 49.79 | 74.10 | 107.82 | 233.78 |
| 6 | Q 2 | 21,817 | 71.73 | 45.51 | 5.15 | 1147.91 | 17.30 | 32.66 | 44.29 | 61.35 | 85.79 | 119.80 | 238.17 |
| 6 | Q 3 | 22,049 | 71.72 | 40.79 | 12.59 | 801.38 | 23.60 | 36.58 | 46.99 | 62.15 | 84.04 | 115.08 | 228.67 |
| 6 | Q 4 | 21,802 | 67.09 | 32.66 | 13.50 | 578.77 | 24.97 | 36.99 | 46.53 | 60.04 | 78.65 | 103.92 | 187.85 |
| 7 | Q 1 | 23,977 | 57.37 | 44.37 | 1.58 | 1085.89 | 5.50 | 17.92 | 29.92 | 47.45 | 71.16 | 106.05 | 218.70 |
| 7 | Q 2 | 24,045 | 67.47 | 42.11 | 4.92 | 818.90 | 17.41 | 31.03 | 41.82 | 57.46 | 80.31 | 114.22 | 225.19 |
| 7 | Q 3 | 24,238 | 67.74 | 38.37 | 9.67 | 919.99 | 22.16 | 34.96 | 44.71 | 58.94 | 79.31 | 108.41 | 207.74 |
| 7 | Q 4 | 24,446 | 66.93 | 33.65 | 13.59 | 976.46 | 25.72 | 37.72 | 46.55 | 59.64 | 77.26 | 102.85 | 189.09 |

Table 8.H.3 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 8 | Q 1 | 24,454 | 55.27 | 43.90 | 1.43 | 800.29 | 4.31 | 16.13 | 27.85 | 45.26 | 69.19 | 104.17 | 217.19 |
| 8 | Q 2 | 24,561 | 65.63 | 42.11 | 2.26 | 734.71 | 15.76 | 29.35 | 39.98 | 55.66 | 78.50 | 110.73 | 223.42 |
| 8 | Q 3 | 24,475 | 67.69 | 39.05 | 3.09 | 953.89 | 21.94 | 34.53 | 44.31 | 58.65 | 79.25 | 109.43 | 210.73 |
| 8 | Q 4 | 24,729 | 66.99 | 33.05 | 13.30 | 1017.19 | 25.61 | 37.66 | 46.67 | 59.65 | 78.14 | 102.95 | 183.51 |
| 11 | Q 1 | 51,498 | 47.59 | 35.44 | 1.00 | 779.16 | 2.96 | 12.94 | 24.18 | 40.76 | 61.53 | 88.39 | 171.87 |
| 11 | Q 2 | 51,650 | 60.17 | 32.50 | 3.53 | 740.87 | 15.67 | 28.95 | 39.29 | 53.89 | 72.98 | 97.17 | 171.44 |
| 11 | Q 3 | 51,978 | 62.28 | 29.04 | 3.80 | 972.80 | 21.82 | 34.44 | 43.95 | 56.69 | 73.66 | 95.38 | 160.79 |
| 11 | Q 4 | 51,803 | 61.63 | 24.40 | 8.94 | 443.98 | 25.93 | 37.44 | 45.78 | 56.97 | 71.77 | 90.45 | 147.64 |

Table 8.H. CAT Testing Time (In Minutes) at Each Ability Level—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 3 | Q 1 | 21,161 | 32.72 | 23.13 | 1.34 | 292.88 | 4.93 | 11.58 | 17.81 | 27.09 | 40.62 | 59.51 | 118.47 |
| 3 | Q 2 | 21,323 | 40.40 | 25.88 | 4.02 | 572.87 | 10.37 | 17.81 | 23.99 | 33.75 | 48.84 | 70.55 | 133.14 |
| 3 | Q 3 | 21,088 | 43.50 | 26.42 | 5.56 | 441.14 | 12.67 | 20.06 | 26.30 | 36.38 | 52.82 | 75.37 | 139.66 |
| 3 | Q 4 | 21,556 | 44.81 | 26.14 | 7.47 | 405.76 | 13.23 | 20.80 | 27.51 | 38.20 | 54.22 | 77.09 | 139.43 |
| 4 | Q 1 | 21,777 | 35.29 | 27.61 | 1.71 | 1066.18 | 5.22 | 12.39 | 18.70 | 28.44 | 43.27 | 65.00 | 132.92 |
| 4 | Q 2 | 21,942 | 41.90 | 28.17 | 3.25 | 446.63 | 10.66 | 18.18 | 24.45 | 34.53 | 50.27 | 73.22 | 150.25 |
| 4 | Q 3 | 21,846 | 46.73 | 29.82 | 6.24 | 528.52 | 13.46 | 21.34 | 28.07 | 38.86 | 55.97 | 80.34 | 159.89 |
| 4 | Q 4 | 22,101 | 49.74 | 29.53 | 8.66 | 524.26 | 14.88 | 23.55 | 30.66 | 42.26 | 59.76 | 83.97 | 160.24 |
| 5 | Q 1 | 22,082 | 37.16 | 29.59 | 0.68 | 473.21 | 4.37 | 12.03 | 19.02 | 29.50 | 45.75 | 70.19 | 150.03 |
| 5 | Q 2 | 22,226 | 43.95 | 31.80 | 1.56 | 516.20 | 9.84 | 17.94 | 24.59 | 35.65 | 52.86 | 78.28 | 164.90 |
| 5 | Q 3 | 22,595 | 48.89 | 32.54 | 4.48 | 696.54 | 13.65 | 21.86 | 29.17 | 40.58 | 58.47 | 84.01 | 168.59 |
| 5 | Q 4 | 22,316 | 53.62 | 31.75 | 8.10 | 887.29 | 16.82 | 25.65 | 33.47 | 45.68 | 64.59 | 90.38 | 163.91 |
| 6 | Q 1 | 21,582 | 44.98 | 35.98 | 1.24 | 704.72 | 5.00 | 14.76 | 23.34 | 36.17 | 55.43 | 82.91 | 182.22 |
| 6 | Q 2 | 21,751 | 52.84 | 38.49 | 3.52 | 639.30 | 12.71 | 22.36 | 30.30 | 42.99 | 62.53 | 92.13 | 208.01 |
| 6 | Q 3 | 21,832 | 54.26 | 36.70 | 6.02 | 685.60 | 15.73 | 24.83 | 32.68 | 44.92 | 64.11 | 92.28 | 188.64 |
| 6 | Q 4 | 21,974 | 55.18 | 32.27 | 9.24 | 539.33 | 17.22 | 26.84 | 34.77 | 47.58 | 65.71 | 90.95 | 179.35 |
| 7 | Q 1 | 24,003 | 43.17 | 34.91 | 1.02 | 607.82 | 4.12 | 13.25 | 21.99 | 34.64 | 53.74 | 81.17 | 174.18 |
| 7 | Q 2 | 24,156 | 50.29 | 35.85 | 2.10 | 679.23 | 10.81 | 20.87 | 28.89 | 41.23 | 60.25 | 88.09 | 190.84 |
| 7 | Q 3 | 24,176 | 54.34 | 35.12 | 4.41 | 984.81 | 14.99 | 24.78 | 32.82 | 45.73 | 65.02 | 92.18 | 184.69 |
| 7 | Q 4 | 24,193 | 60.19 | 33.89 | 6.29 | 653.81 | 18.17 | 29.36 | 38.36 | 52.24 | 72.29 | 98.86 | 185.31 |

Table 8.H.4 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 8 | Q 1 | 24,204 | 43.88 | 37.56 | 1.31 | 928.71 | 3.40 | 11.90 | 20.93 | 34.64 | 54.64 | 84.54 | 184.32 |
| 8 | Q 2 | 24,295 | 50.79 | 37.15 | 2.00 | 1371.59 | 9.24 | 19.94 | 28.50 | 41.29 | 61.63 | 90.73 | 186.00 |
| 8 | Q 3 | 24,670 | 57.78 | 38.43 | 2.14 | 1692.02 | 15.18 | 25.73 | 34.59 | 48.21 | 69.59 | 98.99 | 197.53 |
| 8 | Q 4 | 24,395 | 65.75 | 37.69 | 9.38 | 1345.60 | 20.63 | 32.53 | 42.18 | 56.77 | 78.05 | 108.82 | 201.82 |
| 11 | Q 1 | 49,631 | 32.89 | 25.08 | 0.67 | 513.19 | 2.36 | 8.60 | 16.41 | 27.60 | 42.72 | 61.74 | 122.08 |
| 11 | Q 2 | 49,472 | 44.12 | 27.73 | 1.14 | 661.66 | 8.05 | 18.28 | 26.55 | 38.29 | 54.25 | 75.24 | 143.07 |
| 11 | Q 3 | 50,122 | 52.96 | 28.80 | 1.58 | 506.54 | 14.17 | 25.57 | 34.32 | 46.88 | 64.08 | 86.65 | 154.55 |
| 11 | Q 4 | 49,957 | 59.99 | 28.76 | 5.10 | 640.44 | 20.33 | 32.22 | 41.37 | 54.21 | 71.17 | 93.83 | 159.89 |

Table 8.H. PT Testing Time (In Minutes) at Each Ability Level—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Number of PTs** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 3 | 18 | Q 1 | 19,761 | 47.61 | 47.90 | 0.29 | 647.29 | 1.69 | 7.65 | 16.51 | 33.67 | 61.65 | 103.78 | 235.19 |
| 3 | 18 | Q 2 | 19,958 | 60.35 | 52.29 | 0.67 | 803.91 | 4.46 | 15.09 | 26.40 | 45.61 | 77.47 | 121.49 | 260.60 |
| 3 | 18 | Q 3 | 20,231 | 66.12 | 50.11 | 0.10 | 622.45 | 7.48 | 20.73 | 32.95 | 52.76 | 84.68 | 126.65 | 256.89 |
| 3 | 18 | Q 4 | 20,049 | 73.90 | 51.67 | 0.92 | 800.16 | 11.92 | 26.64 | 39.77 | 60.96 | 93.41 | 134.44 | 261.60 |
| 4 | 21 | Q 1 | 20,523 | 53.29 | 51.54 | 0.10 | 733.92 | 2.12 | 9.33 | 19.56 | 38.11 | 69.00 | 116.16 | 247.63 |
| 4 | 21 | Q 2 | 20,423 | 67.66 | 56.89 | 0.33 | 814.67 | 5.44 | 18.16 | 31.04 | 52.26 | 85.93 | 134.31 | 281.07 |
| 4 | 21 | Q 3 | 20,895 | 75.66 | 56.88 | 0.83 | 710.16 | 9.61 | 24.96 | 38.02 | 60.21 | 95.82 | 143.77 | 285.74 |
| 4 | 21 | Q 4 | 20,632 | 82.39 | 56.04 | 1.75 | 797.84 | 14.88 | 30.93 | 45.43 | 68.30 | 103.10 | 149.28 | 287.71 |
| 5 | 24 | Q 1 | 21,014 | 54.90 | 53.83 | 0.09 | 725.84 | 1.95 | 10.03 | 20.84 | 39.28 | 69.59 | 117.08 | 267.13 |
| 5 | 24 | Q 2 | 20,786 | 72.11 | 61.20 | 0.54 | 987.81 | 7.05 | 21.34 | 33.87 | 54.94 | 90.06 | 142.55 | 308.47 |
| 5 | 24 | Q 3 | 21,116 | 79.79 | 59.53 | 1.12 | 852.00 | 11.85 | 27.73 | 41.46 | 64.00 | 99.51 | 149.07 | 306.18 |
| 5 | 24 | Q 4 | 21,221 | 87.02 | 57.70 | 3.05 | 973.26 | 16.65 | 34.54 | 49.59 | 73.39 | 107.44 | 153.58 | 300.48 |
| 6 | 18 | Q 1 | 21,537 | 58.75 | 61.62 | 0.14 | 1674.13 | 1.96 | 10.32 | 21.43 | 41.40 | 74.58 | 124.27 | 298.70 |
| 6 | 18 | Q 2 | 21,817 | 76.17 | 67.32 | 0.16 | 1575.52 | 6.90 | 21.24 | 35.07 | 58.12 | 95.37 | 149.78 | 323.77 |
| 6 | 18 | Q 3 | 22,049 | 85.58 | 68.99 | 1.34 | 1961.85 | 12.95 | 29.49 | 44.28 | 68.04 | 105.73 | 157.53 | 341.92 |
| 6 | 18 | Q 4 | 21,802 | 95.49 | 63.30 | 1.45 | 947.42 | 18.56 | 38.64 | 55.36 | 79.63 | 117.08 | 170.08 | 328.75 |
| 7 | 23 | Q 1 | 23,977 | 57.10 | 60.38 | 0.14 | 1192.26 | 1.56 | 9.77 | 20.90 | 40.51 | 71.78 | 119.45 | 297.95 |
| 7 | 23 | Q 2 | 24,045 | 74.35 | 62.89 | 0.42 | 999.87 | 7.60 | 21.91 | 35.30 | 57.15 | 92.22 | 144.80 | 329.53 |
| 7 | 23 | Q 3 | 24,238 | 85.57 | 66.41 | 0.56 | 1445.12 | 13.71 | 30.75 | 45.75 | 68.36 | 104.73 | 155.67 | 334.10 |
| 7 | 23 | Q 4 | 24,446 | 98.95 | 65.54 | 2.20 | 997.68 | 20.86 | 41.74 | 58.43 | 83.00 | 120.07 | 169.51 | 342.52 |

Table 8.H.5 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Number of PTs** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 8 | 24 | Q 1 | 24,454 | 52.81 | 53.68 | 0.09 | 821.33 | 1.15 | 8.53 | 19.14 | 37.83 | 67.90 | 112.46 | 264.28 |
| 8 | 24 | Q 2 | 24,561 | 71.98 | 61.48 | 0.20 | 1557.84 | 6.55 | 20.98 | 34.46 | 56.17 | 89.57 | 138.91 | 302.71 |
| 8 | 24 | Q 3 | 24,475 | 84.22 | 63.01 | 0.19 | 1530.10 | 13.26 | 30.72 | 45.65 | 68.55 | 102.73 | 153.19 | 318.95 |
| 8 | 24 | Q 4 | 24,729 | 97.38 | 61.97 | 0.34 | 922.25 | 20.67 | 41.70 | 58.83 | 82.65 | 117.67 | 167.32 | 330.33 |
| 11 | 23 | Q 1 | 51,498 | 39.73 | 39.77 | 0.13 | 1146.78 | 0.65 | 5.63 | 13.91 | 29.34 | 52.75 | 84.59 | 183.77 |
| 11 | 23 | Q 2 | 51,650 | 59.68 | 43.95 | 0.15 | 816.23 | 4.57 | 18.42 | 30.98 | 50.08 | 75.91 | 110.33 | 220.44 |
| 11 | 23 | Q 3 | 51,978 | 74.49 | 47.36 | 0.21 | 760.92 | 11.80 | 30.12 | 44.42 | 64.57 | 91.88 | 127.94 | 247.21 |
| 11 | 23 | Q 4 | 51,803 | 86.07 | 47.53 | 0.38 | 1014.85 | 21.39 | 41.83 | 56.60 | 76.55 | 102.71 | 139.07 | 256.57 |

Table 8.H. PT Testing Time (In Minutes) at Each Ability Level—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Number of PTs** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 3 | 16 | Q 1 | 21,161 | 24.46 | 23.33 | 0.06 | 486.34 | 1.68 | 5.70 | 10.11 | 17.76 | 30.35 | 50.49 | 117.61 |
| 3 | 16 | Q 2 | 21,323 | 29.31 | 24.73 | 0.04 | 395.27 | 3.32 | 9.01 | 14.06 | 22.60 | 36.50 | 55.80 | 124.01 |
| 3 | 16 | Q 3 | 21,088 | 31.75 | 25.77 | 0.07 | 665.48 | 4.68 | 10.85 | 16.30 | 25.34 | 39.16 | 58.55 | 127.71 |
| 3 | 16 | Q 4 | 21,556 | 30.82 | 22.29 | 0.05 | 289.92 | 5.35 | 11.34 | 16.70 | 25.19 | 37.94 | 56.06 | 114.58 |
| 4 | 21 | Q 1 | 21,777 | 26.07 | 25.19 | 0.03 | 640.98 | 1.76 | 6.21 | 11.10 | 19.23 | 32.52 | 52.71 | 124.38 |
| 4 | 21 | Q 2 | 21,942 | 30.70 | 26.47 | 0.05 | 586.71 | 3.69 | 10.03 | 15.36 | 23.92 | 37.22 | 57.63 | 131.23 |
| 4 | 21 | Q 3 | 21,846 | 31.33 | 24.99 | 0.07 | 721.23 | 5.19 | 11.37 | 16.60 | 25.02 | 37.77 | 57.81 | 124.26 |
| 4 | 21 | Q 4 | 22,101 | 29.38 | 21.66 | 0.08 | 593.10 | 5.60 | 11.25 | 16.03 | 23.92 | 36.15 | 52.76 | 112.05 |
| 5 | 19 | Q 1 | 22,082 | 34.25 | 34.02 | 0.07 | 519.35 | 1.75 | 7.33 | 14.10 | 24.94 | 42.49 | 69.63 | 168.94 |
| 5 | 19 | Q 2 | 22,226 | 41.24 | 37.69 | 0.05 | 807.77 | 3.93 | 12.30 | 19.65 | 31.19 | 50.20 | 78.64 | 186.54 |
| 5 | 19 | Q 3 | 22,595 | 45.46 | 37.31 | 0.07 | 767.91 | 5.75 | 15.27 | 22.82 | 35.51 | 55.79 | 85.35 | 189.26 |
| 5 | 19 | Q 4 | 22,316 | 48.76 | 36.81 | 0.06 | 643.56 | 7.25 | 16.80 | 25.40 | 39.37 | 60.84 | 89.80 | 183.24 |
| 6 | 16 | Q 1 | 21,582 | 33.08 | 34.20 | 0.06 | 1190.87 | 1.62 | 7.24 | 13.99 | 24.66 | 41.46 | 66.20 | 158.10 |
| 6 | 16 | Q 2 | 21,751 | 40.91 | 35.34 | 0.06 | 738.75 | 3.70 | 13.25 | 20.37 | 31.74 | 49.58 | 77.32 | 177.82 |
| 6 | 16 | Q 3 | 21,832 | 44.53 | 36.64 | 0.06 | 613.64 | 6.16 | 16.15 | 23.49 | 35.26 | 53.16 | 80.46 | 185.97 |
| 6 | 16 | Q 4 | 21,974 | 49.00 | 36.23 | 0.08 | 684.09 | 8.38 | 19.49 | 27.53 | 39.75 | 58.96 | 87.04 | 190.16 |
| 7 | 16 | Q 1 | 24,003 | 23.88 | 26.10 | 0.06 | 730.56 | 1.07 | 4.86 | 9.08 | 16.62 | 29.35 | 49.36 | 126.02 |
| 7 | 16 | Q 2 | 24,156 | 28.81 | 28.72 | 0.05 | 875.52 | 2.48 | 8.13 | 12.84 | 20.95 | 34.79 | 56.64 | 139.28 |
| 7 | 16 | Q 3 | 24,176 | 31.88 | 28.90 | 0.07 | 687.80 | 3.98 | 9.54 | 14.82 | 23.91 | 39.10 | 61.48 | 142.84 |
| 7 | 16 | Q 4 | 24,193 | 34.84 | 28.27 | 0.08 | 635.84 | 4.46 | 10.83 | 17.35 | 27.70 | 43.65 | 66.17 | 141.83 |

Table 8.H.6 *(continuation)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Number of PTs** | **Ability Level** | **N** | **Mean** | **SD** | **Minimum** | **Maximum** | **Percentile Point 1** | **Percentile Point 10** | **Percentile Point 25** | **Percentile Point 50** | **Percentile Point 75** | **Percentile Point 90** | **Percentile Point 99** |
| 8 | 16 | Q 1 | 24,204 | 25.52 | 28.88 | 0.06 | 651.56 | 0.93 | 4.50 | 9.19 | 17.54 | 31.53 | 53.17 | 140.35 |
| 8 | 16 | Q 2 | 24,295 | 30.74 | 29.57 | 0.06 | 632.85 | 2.22 | 8.12 | 13.64 | 22.91 | 37.56 | 60.66 | 145.83 |
| 8 | 16 | Q 3 | 24,670 | 35.42 | 32.93 | 0.06 | 1704.04 | 3.92 | 11.40 | 17.35 | 27.06 | 43.29 | 67.49 | 150.73 |
| 8 | 16 | Q 4 | 24,395 | 39.82 | 29.69 | 0.06 | 632.27 | 6.64 | 14.98 | 21.39 | 32.17 | 48.78 | 72.55 | 150.89 |
| 11 | 13 | Q 1 | 49,631 | 20.84 | 21.15 | 0.04 | 390.12 | 0.67 | 2.94 | 7.18 | 15.06 | 27.53 | 44.41 | 101.62 |
| 11 | 13 | Q 2 | 49,472 | 28.45 | 24.96 | 0.06 | 592.00 | 1.31 | 6.50 | 12.52 | 22.32 | 36.66 | 56.39 | 120.36 |
| 11 | 13 | Q 3 | 50,122 | 35.33 | 27.33 | 0.06 | 751.01 | 2.35 | 10.38 | 17.88 | 29.07 | 44.93 | 66.14 | 133.78 |
| 11 | 13 | Q 4 | 49,957 | 40.75 | 25.75 | 0.08 | 470.95 | 4.87 | 16.66 | 24.25 | 35.22 | 50.39 | 70.49 | 133.06 |

### Appendix 8.I: Correlations Between Content Areas

**Notes for the tables in appendix 8.I:**

* The sample sizes used to calculate the correlations are in the *Correlation Sample Size* column.
* Sample sizes of the individual assessments are in the *ELA Sample Size* and *Mathematics Sample Size* columns.
* The correlation coefficients are in the *Correlation* column.

Table 8.I. Correlations for Gender

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Male | 40,527 | 43,179 | 39,936 | 0.78 |
| 3 | Female | 39,498 | 42,094 | 38,955 | 0.78 |
| 4 | Male | 41,846 | 44,452 | 41,288 | 0.78 |
| 4 | Female | 40,641 | 43,343 | 40,142 | 0.77 |
| 5 | Male | 42,711 | 45,401 | 42,028 | 0.78 |
| 5 | Female | 41,451 | 43,998 | 40,767 | 0.77 |
| 6 | Male | 44,696 | 44,814 | 43,252 | 0.79 |
| 6 | Female | 42,546 | 42,536 | 41,134 | 0.78 |
| 7 | Male | 49,367 | 49,463 | 46,981 | 0.77 |
| 7 | Female | 47,409 | 47,344 | 45,229 | 0.75 |
| 8 | Male | 50,475 | 50,241 | 47,866 | 0.78 |
| 8 | Female | 47,789 | 47,563 | 45,428 | 0.76 |
| 11 | Male | 102,116 | 98,849 | 93,730 | 0.74 |
| 11 | Female | 104,937 | 101,025 | 96,505 | 0.72 |

Table 8.I. Correlations for Primary Ethnicity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | American Indian or Alaska Native | 571 | 576 | 563 | 0.69 |
| 3 | Asian | 7,768 | 8,142 | 7,708 | 0.79 |
| 3 | Native Hawaiian or Other Pacific Islander | 337 | 381 | 329 | 0.75 |
| 3 | Filipino | 1,328 | 1,445 | 1,310 | 0.75 |
| 3 | Hispanic or Latino | 38,836 | 41,816 | 38,175 | 0.71 |
| 3 | Black or African American | 3,063 | 3,533 | 2,982 | 0.71 |
| 3 | White | 22,544 | 23,468 | 22,314 | 0.75 |
| 3 | Two or more races | 5,582 | 5,916 | 5,514 | 0.77 |
| 3 | Unknown | 0 | 0 | 0 | N/A |
| 4 | American Indian or Alaska Native | 594 | 592 | 577 | 0.71 |
| 4 | Asian | 7,732 | 8,112 | 7,680 | 0.78 |
| 4 | Native Hawaiian or Other Pacific Islander | 348 | 398 | 343 | 0.74 |
| 4 | Filipino | 1,428 | 1,557 | 1,422 | 0.73 |
| 4 | Hispanic or Latino | 39,990 | 42,909 | 39,376 | 0.71 |
| 4 | Black or African American | 3,158 | 3,693 | 3,099 | 0.72 |
| 4 | White | 23,774 | 24,721 | 23,535 | 0.74 |
| 4 | Two or more races | 5,470 | 5,820 | 5,405 | 0.77 |
| 4 | Unknown | 0 | 0 | 0 | N/A |
| 5 | American Indian or Alaska Native | 646 | 657 | 640 | 0.73 |
| 5 | Asian | 7,999 | 8,338 | 7,948 | 0.78 |
| 5 | Native Hawaiian or Other Pacific Islander | 393 | 443 | 386 | 0.74 |
| 5 | Filipino | 1,478 | 1,612 | 1,462 | 0.73 |
| 5 | Hispanic or Latino | 41,145 | 44,131 | 40,296 | 0.71 |
| 5 | Black or African American | 3,093 | 3,630 | 3,012 | 0.71 |
| 5 | White | 24,077 | 24,924 | 23,800 | 0.74 |
| 5 | Two or more races | 5,333 | 5,667 | 5,253 | 0.75 |
| 5 | Unknown | 0 | 0 | 0 | N/A |

Table 8.I.2 *(continuation one)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 6 | American Indian or Alaska Native | 602 | 608 | 589 | 0.69 |
| 6 | Asian | 8,011 | 7,866 | 7,713 | 0.78 |
| 6 | Native Hawaiian or Other Pacific Islander | 453 | 451 | 437 | 0.72 |
| 6 | Filipino | 1,641 | 1,604 | 1,581 | 0.74 |
| 6 | Hispanic or Latino | 43,609 | 43,671 | 42,077 | 0.73 |
| 6 | Black or African American | 3,845 | 3,790 | 3,663 | 0.74 |
| 6 | White | 23,718 | 24,037 | 23,178 | 0.75 |
| 6 | Two or more races | 5,380 | 5,341 | 5,165 | 0.79 |
| 6 | Unknown | 0 | 0 | 0 | N/A |
| 7 | American Indian or Alaska Native | 667 | 663 | 640 | 0.70 |
| 7 | Asian | 9,121 | 8,926 | 8,695 | 0.76 |
| 7 | Native Hawaiian or Other Pacific Islander | 492 | 497 | 465 | 0.71 |
| 7 | Filipino | 2,171 | 2,147 | 2,075 | 0.73 |
| 7 | Hispanic or Latino | 49,330 | 49,510 | 46,802 | 0.71 |
| 7 | Black or African American | 4,099 | 3,966 | 3,789 | 0.70 |
| 7 | White | 25,472 | 25,681 | 24,586 | 0.73 |
| 7 | Two or more races | 5,446 | 5,438 | 5,178 | 0.76 |
| 7 | Unknown | 0 | 0 | 0 | N/A |
| 8 | American Indian or Alaska Native | 695 | 667 | 642 | 0.70 |
| 8 | Asian | 9,103 | 8,896 | 8,653 | 0.77 |
| 8 | Native Hawaiian or Other Pacific Islander | 492 | 479 | 454 | 0.72 |
| 8 | Filipino | 2,241 | 2,219 | 2,139 | 0.72 |
| 8 | Hispanic or Latino | 50,284 | 50,194 | 47,536 | 0.71 |
| 8 | Black or African American | 4,356 | 4,181 | 4,017 | 0.72 |
| 8 | White | 25,898 | 26,003 | 24,930 | 0.75 |
| 8 | Two or more races | 5,228 | 5,198 | 4,955 | 0.77 |
| 8 | Unknown | 0 | 0 | 0 | N/A |

Table 8.I.2 *(continuation two)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 11 | American Indian or Alaska Native | 1,022 | 956 | 907 | 0.68 |
| 11 | Asian | 23,095 | 22,572 | 22,023 | 0.72 |
| 11 | Native Hawaiian or Other Pacific Islander | 854 | 814 | 776 | 0.72 |
| 11 | Filipino | 5,931 | 5,766 | 5,552 | 0.70 |
| 11 | Hispanic or Latino | 113,232 | 109,236 | 103,177 | 0.67 |
| 11 | Black or African American | 8,285 | 8,016 | 7,457 | 0.67 |
| 11 | White | 46,600 | 44,822 | 42,957 | 0.72 |
| 11 | Two or more races | 8,120 | 7,777 | 7,466 | 0.74 |
| 11 | Unknown | 0 | 0 | 0 | N/A |

Table 8.I. Correlations for English Language Fluency

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | EL | 19,813 | 20,827 | 19,483 | 0.66 |
| 3 | English only | 51,871 | 55,449 | 51,164 | 0.77 |
| 3 | RFEP | 5,380 | 5,882 | 5,303 | 0.73 |
| 3 | IFEP | 2,912 | 3,065 | 2,893 | 0.78 |
| 3 | ADEL | 0 | 0 | 0 | N/A |
| 3 | English classification—To be determined | 16 | 18 | 16 | 0.76 |
| 3 | English classification—No Response | 37 | 36 | 36 | 0.76 |
| 4 | EL | 17,619 | 18,501 | 17,323 | 0.63 |
| 4 | English only | 53,084 | 56,560 | 52,426 | 0.76 |
| 4 | RFEP | 8,892 | 9,721 | 8,807 | 0.71 |
| 4 | IFEP | 2,850 | 2,967 | 2,832 | 0.76 |
| 4 | ADEL | 0 | 0 | 0 | N/A |
| 4 | English classification—To be determined | 12 | 16 | 12 | 0.75 |
| 4 | English classification—No Response | 37 | 37 | 37 | 0.78 |
| 5 | EL | 15,333 | 16,015 | 15,004 | 0.60 |
| 5 | English only | 52,805 | 56,140 | 51,983 | 0.76 |
| 5 | RFEP | 12,867 | 13,960 | 12,676 | 0.69 |
| 5 | IFEP | 3,109 | 3,233 | 3,085 | 0.76 |
| 5 | ADEL | 0 | 0 | 0 | N/A |
| 5 | English classification—To be determined | 8 | 12 | 8 | 0.78 |
| 5 | English classification—No Response | 42 | 42 | 41 | 0.85 |
| 6 | EL | 15,308 | 15,354 | 14,738 | 0.60 |
| 6 | English only | 53,426 | 53,543 | 51,792 | 0.77 |
| 6 | RFEP | 15,200 | 15,207 | 14,676 | 0.70 |
| 6 | IFEP | 3,287 | 3,225 | 3,159 | 0.75 |
| 6 | ADEL | 0 | 0 | 0 | N/A |
| 6 | English classification—To be determined | 10 | 11 | 10 | 0.70 |
| 6 | English classification—No Response | 28 | 28 | 28 | 0.76 |

Table 8.I.3 *(continuation)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 7 | EL | 14,712 | 14,821 | 13,802 | 0.54 |
| 7 | English only | 57,307 | 57,335 | 54,810 | 0.75 |
| 7 | RFEP | 20,907 | 20,825 | 19,898 | 0.69 |
| 7 | IFEP | 3,826 | 3,801 | 3,676 | 0.75 |
| 7 | ADEL | 0 | 0 | 0 | N/A |
| 7 | English classification—To be determined | 12 | 13 | 12 | 0.65 |
| 7 | English classification—No Response | 34 | 33 | 32 | 0.69 |
| 8 | EL | 13,203 | 13,257 | 12,384 | 0.52 |
| 8 | English only | 57,305 | 56,982 | 54,567 | 0.76 |
| 8 | RFEP | 23,778 | 23,652 | 22,569 | 0.70 |
| 8 | IFEP | 3,971 | 3,903 | 3,768 | 0.74 |
| 8 | ADEL | 0 | 0 | 0 | N/A |
| 8 | English classification—To be determined | 8 | 11 | 8 | 0.31 |
| 8 | English classification—No Response | 32 | 32 | 30 | 0.75 |
| 11 | EL | 17,487 | 16,927 | 15,555 | 0.48 |
| 11 | English only | 105,652 | 101,608 | 96,935 | 0.73 |
| 11 | RFEP | 72,370 | 70,113 | 66,906 | 0.68 |
| 11 | IFEP | 11,547 | 11,230 | 10,845 | 0.72 |
| 11 | ADEL | 37 | 37 | 35 | 0.18 |
| 11 | English classification—To be determined | 16 | 13 | 12 | 0.60 |
| 11 | English classification—No Response | 30 | 31 | 27 | 0.65 |

Table 8.I. Correlations for Economic Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Economically disadvantaged | 43,210 | 46,079 | 42,402 | 0.70 |
| 3 | Not economically disadvantaged | 36,819 | 39,198 | 36,493 | 0.76 |
| 4 | Economically disadvantaged | 44,502 | 47,420 | 43,753 | 0.70 |
| 4 | Not economically disadvantaged | 37,992 | 40,382 | 37,684 | 0.75 |
| 5 | Economically disadvantaged | 45,815 | 48,669 | 44,820 | 0.71 |
| 5 | Not economically disadvantaged | 38,349 | 40,733 | 37,977 | 0.75 |
| 6 | Economically disadvantaged | 48,387 | 48,327 | 46,654 | 0.73 |
| 6 | Not economically disadvantaged | 38,872 | 39,041 | 37,749 | 0.76 |
| 7 | Economically disadvantaged | 53,519 | 53,522 | 50,629 | 0.71 |
| 7 | Not economically disadvantaged | 43,279 | 43,306 | 41,601 | 0.74 |
| 8 | Economically disadvantaged | 54,451 | 54,281 | 51,417 | 0.72 |
| 8 | Not economically disadvantaged | 43,846 | 43,556 | 41,909 | 0.76 |
| 11 | Economically disadvantaged | 118,560 | 114,492 | 108,185 | 0.68 |
| 11 | Not economically disadvantaged | 88,579 | 85,467 | 82,130 | 0.73 |

Table 8.I. Correlations for Special Education Services Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Special education services | 8,717 | 9,273 | 8,517 | 0.71 |
| 3 | No special education services | 71,312 | 76,004 | 70,378 | 0.77 |
| 4 | Special education services | 9,460 | 10,048 | 9,293 | 0.71 |
| 4 | No special education services | 73,034 | 77,754 | 72,144 | 0.76 |
| 5 | Special education services | 9,603 | 10,219 | 9,380 | 0.70 |
| 5 | No special education services | 74,561 | 79,183 | 73,417 | 0.75 |
| 6 | Special education services | 10,126 | 10,100 | 9,740 | 0.69 |
| 6 | No special education services | 77,133 | 77,268 | 74,663 | 0.76 |
| 7 | Special education services | 10,892 | 10,903 | 10,244 | 0.65 |
| 7 | No special education services | 85,906 | 85,925 | 81,986 | 0.74 |
| 8 | Special education services | 10,867 | 10,880 | 10,266 | 0.64 |
| 8 | No special education services | 87,430 | 86,957 | 83,060 | 0.75 |
| 11 | Special education services | 17,615 | 16,944 | 15,721 | 0.55 |
| 11 | No special education services | 189,524 | 183,015 | 174,594 | 0.71 |

Table 8.I. Correlations for Migrant Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Migrant education | 733 | 750 | 718 | 0.66 |
| 3 | Not migrant education | 79,296 | 84,527 | 78,177 | 0.77 |
| 4 | Migrant education | 776 | 792 | 766 | 0.67 |
| 4 | Not migrant education | 81,718 | 87,010 | 80,671 | 0.77 |
| 5 | Migrant education | 795 | 819 | 776 | 0.70 |
| 5 | Not migrant education | 83,369 | 88,583 | 82,021 | 0.77 |
| 6 | Migrant education | 707 | 700 | 685 | 0.70 |
| 6 | Not migrant education | 86,552 | 86,668 | 83,718 | 0.78 |
| 7 | Migrant education | 719 | 717 | 691 | 0.71 |
| 7 | Not migrant education | 96,079 | 96,111 | 91,539 | 0.76 |
| 8 | Migrant education | 800 | 812 | 781 | 0.69 |
| 8 | Not migrant education | 97,497 | 97,025 | 92,545 | 0.77 |
| 11 | Migrant education | 1,391 | 1,301 | 1,244 | 0.65 |
| 11 | Not migrant education | 205,748 | 198,658 | 189,071 | 0.73 |

Table 8.I. Correlations for Military Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Military | 972 | 976 | 961 | 0.75 |
| 3 | Not Military | 79,057 | 84,301 | 77,934 | 0.77 |
| 4 | Military | 1,108 | 1,106 | 1,091 | 0.73 |
| 4 | Not Military | 81,386 | 86,696 | 80,346 | 0.77 |
| 5 | Military | 1,035 | 1,035 | 1,026 | 0.73 |
| 5 | Not Military | 83,129 | 88,367 | 81,771 | 0.77 |
| 6 | Military | 831 | 831 | 819 | 0.76 |
| 6 | Not Military | 86,428 | 86,537 | 83,584 | 0.78 |
| 7 | Military | 1,058 | 1,023 | 982 | 0.75 |
| 7 | Not Military | 95,740 | 95,805 | 91,248 | 0.76 |
| 8 | Military | 1,102 | 1,057 | 1,012 | 0.72 |
| 8 | Not Military | 97,195 | 96,780 | 92,314 | 0.77 |
| 11 | Military | 2,699 | 2,585 | 2,474 | 0.71 |
| 11 | Not Military | 204,440 | 197,374 | 187,841 | 0.73 |

Table 8.I. Correlations for Homeless Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | **Demographic Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Homeless | 1,683 | 2,115 | 1,636 | 0.69 |
| 3 | Not Homeless | 78,346 | 83,162 | 77,259 | 0.77 |
| 4 | Homeless | 1,792 | 2,243 | 1,752 | 0.69 |
| 4 | Not Homeless | 80,702 | 85,559 | 79,685 | 0.77 |
| 5 | Homeless | 1,895 | 2,303 | 1,847 | 0.67 |
| 5 | Not Homeless | 82,269 | 87,099 | 80,950 | 0.77 |
| 6 | Homeless | 2,094 | 2,099 | 2,000 | 0.71 |
| 6 | Not Homeless | 85,165 | 85,269 | 82,403 | 0.78 |
| 7 | Homeless | 2,230 | 2,252 | 2,110 | 0.70 |
| 7 | Not Homeless | 94,568 | 94,576 | 90,120 | 0.76 |
| 8 | Homeless | 2,411 | 2,435 | 2,266 | 0.68 |
| 8 | Not Homeless | 95,886 | 95,402 | 91,060 | 0.77 |
| 11 | Homeless | 4,990 | 4,788 | 4,460 | 0.65 |
| 11 | Not Homeless | 202,149 | 195,171 | 185,855 | 0.73 |