

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



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

## Chapter 11 Appendices

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**By ETS**



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### Appendix 11.A: Item Response Theory Parameter Estimates

Table 11.A. IRT *a-*values for Grade Three—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.76 | 0.27 | 0.43 | 1.18 |
| Claim 2 | 8 | 0.89 | 0.12 | 0.64 | 1.03 |
| Claim 3 | 8 | 0.66 | 0.22 | 0.35 | 0.94 |
| Claim 4 | 9 | 0.84 | 0.21 | 0.40 | 1.15 |
| **All items** | **41** | **0.78** | **0.23** | **0.35** | **1.18** |

Table 11.A. IRT *a-*values for Grade Four—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.73 | 0.21 | 0.39 | 1.14 |
| Claim 2 | 8 | 0.84 | 0.22 | 0.49 | 1.13 |
| Claim 3 | 8 | 0.63 | 0.20 | 0.24 | 0.88 |
| Claim 4 | 9 | 0.70 | 0.12 | 0.48 | 0.79 |
| **All items** | **41** | **0.72** | **0.20** | **0.24** | **1.14** |

Table 11.A. IRT *a*-values for Grade Five—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.70 | 0.17 | 0.47 | 1.09 |
| Claim 2 | 8 | 0.80 | 0.18 | 0.57 | 1.07 |
| Claim 3 | 8 | 0.56 | 0.12 | 0.38 | 0.74 |
| Claim 4 | 9 | 0.88 | 0.22 | 0.40 | 1.18 |
| **All items** | **41** | **0.73** | **0.20** | **0.38** | **1.18** |

Table 11.A. IRT *a*-values for Grade Six—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 15 | 0.59 | 0.19 | 0.26 | 0.88 |
| Claim 2 | 8 | 0.87 | 0.13 | 0.69 | 1.11 |
| Claim 3 | 8 | 0.63 | 0.20 | 0.35 | 0.87 |
| Claim 4 | 9 | 0.80 | 0.09 | 0.72 | 0.95 |
| **All items** | **40** | **0.70** | **0.20** | **0.26** | **1.11** |

Table 11.A. IRT *a*-values for Grade Seven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 14 | 0.63 | 0.21 | 0.19 | 0.90 |
| Claim 2 | 8 | 0.68 | 0.11 | 0.53 | 0.90 |
| Claim 3 | 8 | 0.64 | 0.13 | 0.43 | 0.83 |
| Claim 4 | 9 | 0.69 | 0.13 | 0.46 | 0.91 |
| **All items** | **39** | **0.65** | **0.16** | **0.19** | **0.91** |

Table 11.A. IRT *a*-values for Grade Eight—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 17 | 0.56 | 0.23 | 0.24 | 1.10 |
| Claim 2 | 8 | 0.74 | 0.12 | 0.56 | 0.90 |
| Claim 3 | 9 | 0.62 | 0.19 | 0.24 | 0.88 |
| Claim 4 | 9 | 0.68 | 0.26 | 0.22 | 1.14 |
| **All items** | **43** | **0.63** | **0.21** | **0.22** | **1.14** |

Table 11.A. IRT *a*-values for Grade Eleven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.62 | 0.18 | 0.26 | 0.90 |
| Claim 2 | 8 | 0.72 | 0.13 | 0.51 | 0.91 |
| Claim 3 | 9 | 0.62 | 0.18 | 0.28 | 0.82 |
| Claim 4 | 9 | 0.78 | 0.11 | 0.61 | 0.93 |
| **All items** | **42** | **0.67** | **0.17** | **0.26** | **0.93** |

Table 11.A. IRT *a*-values for Grade Three—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.81 | 0.35 | 0.29 | 1.52 |
| Claim 2 | 10 | 0.86 | 0.21 | 0.51 | 1.13 |
| Claim 3 | 10 | 0.84 | 0.39 | 0.13 | 1.25 |
| **All items** | **40** | **0.83** | **0.32** | **0.13** | **1.52** |

Table 11.A. IRT *a*-values for Grade Four—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.86 | 0.24 | 0.54 | 1.48 |
| Claim 2 | 10 | 0.84 | 0.25 | 0.36 | 1.13 |
| Claim 3 | 10 | 0.90 | 0.20 | 0.69 | 1.37 |
| **All items** | **40** | **0.86** | **0.23** | **0.36** | **1.48** |

Table 11.A. IRT *a*-values for Grade Five—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 18 | 0.84 | 0.34 | 0.29 | 1.53 |
| Claim 2 | 11 | 0.72 | 0.28 | 0.43 | 1.34 |
| Claim 3 | 10 | 0.80 | 0.21 | 0.56 | 1.20 |
| **All items** | **39** | **0.80** | **0.29** | **0.29** | **1.53** |

Table 11.A. IRT *a*-values for Grade Six—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 19 | 0.76 | 0.26 | 0.18 | 1.20 |
| Claim 2 | 9 | 0.71 | 0.25 | 0.29 | 1.03 |
| Claim 3 | 10 | 0.75 | 0.26 | 0.40 | 1.23 |
| **All items** | **38** | **0.74** | **0.25** | **0.18** | **1.23** |

Table 11.A. IRT *a*-values for Grade Seven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.74 | 0.21 | 0.45 | 1.17 |
| Claim 2 | 10 | 0.71 | 0.25 | 0.32 | 1.00 |
| Claim 3 | 10 | 0.78 | 0.38 | 0.45 | 1.68 |
| **All items** | **40** | **0.74** | **0.27** | **0.32** | **1.68** |

Table 11.A. IRT *a*-values for Grade Eight—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.64 | 0.20 | 0.37 | 1.13 |
| Claim 2 | 8 | 0.81 | 0.31 | 0.40 | 1.19 |
| Claim 3 | 10 | 0.60 | 0.18 | 0.32 | 0.86 |
| **All items** | **38** | **0.67** | **0.23** | **0.32** | **1.19** |

Table 11.A. IRT *a*-values for Grade Eleven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 22 | 0.60 | 0.29 | 0.12 | 1.16 |
| Claim 2 | 9 | 0.53 | 0.14 | 0.35 | 0.72 |
| Claim 3 | 10 | 0.47 | 0.21 | 0.23 | 0.93 |
| **All items** | **41** | **0.55** | **0.25** | **0.12** | **1.16** |

Table 11.A. IRT *b*-values for Grade Three—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | -0.80 | 0.65 | -2.48 | 0.08 |
| Claim 2 | 8 | -0.89 | 0.67 | -1.84 | 0.03 |
| Claim 3 | 8 | -0.26 | 1.13 | -1.39 | 1.78 |
| Claim 4 | 9 | -0.69 | 1.47 | -1.76 | 3.03 |
| **All items** | **41** | **-0.69** | **0.97** | **-2.48** | **3.03** |

Table 11.A. IRT *b*-values for Grade Four—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | -0.15 | 0.95 | -1.42 | 2.41 |
| Claim 2 | 8 | -0.57 | 0.79 | -1.45 | 0.35 |
| Claim 3 | 8 | 0.01 | 1.19 | -1.95 | 1.37 |
| Claim 4 | 9 | 0.13 | 0.75 | -0.81 | 1.41 |
| **All items** | **41** | **-0.14** | **0.93** | **-1.95** | **2.41** |

Table 11.A. IRT *b*-values for Grade Five—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.51 | 1.21 | -1.57 | 2.28 |
| Claim 2 | 8 | -0.36 | 0.74 | -1.23 | 0.77 |
| Claim 3 | 8 | 0.42 | 1.19 | -1.69 | 1.97 |
| Claim 4 | 9 | 0.18 | 0.68 | -0.75 | 1.05 |
| **All items** | **41** | **0.25** | **1.05** | **-1.69** | **2.28** |

Table 11.A. IRT *b*-values for Grade Six—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 15 | 1.21 | 1.03 | -0.66 | 2.67 |
| Claim 2 | 8 | 0.54 | 0.81 | -1.05 | 1.49 |
| Claim 3 | 8 | 0.03 | 0.91 | -0.94 | 1.61 |
| Claim 4 | 9 | 0.78 | 0.56 | 0.08 | 1.64 |
| **All items** | **40** | **0.74** | **0.95** | **-1.05** | **2.67** |

Table 11.A. IRT *b*-values for Grade Seven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 14 | 0.39 | 0.69 | -0.61 | 1.69 |
| Claim 2 | 8 | 1.02 | 0.38 | 0.44 | 1.51 |
| Claim 3 | 8 | 0.55 | 1.04 | -0.81 | 2.72 |
| Claim 4 | 9 | 1.45 | 0.83 | -0.45 | 2.56 |
| **All items** | **39** | **0.80** | **0.85** | **-0.81** | **2.72** |

Table 11.A. IRT *b*-values for Grade Eight—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 17 | 1.72 | 1.30 | -0.35 | 5.38 |
| Claim 2 | 8 | 0.87 | 0.89 | -0.75 | 1.59 |
| Claim 3 | 9 | 0.60 | 1.08 | -1.38 | 2.23 |
| Claim 4 | 9 | 0.88 | 0.93 | -0.42 | 2.33 |
| **All items** | **43** | **1.15** | **1.18** | **-1.38** | **5.38** |

Table 11.A. IRT *b*-values for Grade Eleven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 1.53 | 1.12 | -0.14 | 3.91 |
| Claim 2 | 8 | 1.16 | 0.41 | 0.56 | 1.75 |
| Claim 3 | 9 | 0.63 | 0.64 | -0.19 | 1.93 |
| Claim 4 | 9 | 1.45 | 1.09 | 0.47 | 4.04 |
| **All items** | **42** | **1.25** | **0.96** | **-0.19** | **4.04** |

Table 11.A. IRT *b*-values for Grade Three—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | -1.25 | 0.58 | -1.98 | 0.54 |
| Claim 2 | 10 | -1.04 | 0.89 | -2.06 | 0.61 |
| Claim 3 | 10 | -0.36 | 0.44 | -1.23 | 0.29 |
| **All items** | **40** | **-0.98** | **0.73** | **-2.06** | **0.61** |

Table 11.A. IRT *b*-values for Grade Four—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | -0.82 | 0.88 | -3.26 | 0.49 |
| Claim 2 | 10 | -0.44 | 0.63 | -1.37 | 0.48 |
| Claim 3 | 10 | -0.12 | 0.55 | -0.84 | 0.84 |
| **All items** | **40** | **-0.55** | **0.79** | **-3.26** | **0.84** |

Table 11.A. IRT *b*-values for Grade Five—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 18 | -0.08 | 0.63 | -1.12 | 1.31 |
| Claim 2 | 11 | 0.26 | 0.84 | -1.23 | 1.24 |
| Claim 3 | 10 | 0.08 | 0.83 | -1.22 | 1.69 |
| **All items** | **39** | **0.06** | **0.74** | **-1.23** | **1.69** |

Table 11.A. IRT *b*-values for Grade Six—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 19 | 0.26 | 0.85 | -1.59 | 1.76 |
| Claim 2 | 9 | 1.14 | 0.40 | 0.67 | 1.86 |
| Claim 3 | 10 | 0.44 | 1.23 | -1.73 | 2.49 |
| **All items** | **38** | **0.52** | **0.94** | **-1.73** | **2.49** |

Table 11.A. IRT *b*-values for Grade Seven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.51 | 1.23 | -1.59 | 2.26 |
| Claim 2 | 10 | 1.12 | 1.25 | -0.79 | 3.10 |
| Claim 3 | 10 | 0.87 | 1.61 | -1.65 | 3.75 |
| **All items** | **40** | **0.76** | **1.33** | **-1.65** | **3.75** |

Table 11.A. IRT b-values for Grade Eight—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.60 | 0.72 | -0.59 | 2.20 |
| Claim 2 | 8 | 1.64 | 1.01 | 0.33 | 3.16 |
| Claim 3 | 10 | 2.02 | 0.65 | 0.85 | 2.72 |
| **All items** | **38** | **1.19** | **0.99** | **-0.59** | **3.16** |

Table 11.A. IRT *b*-values for Grade Eleven—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 22 | 1.51 | 1.31 | -0.59 | 5.14 |
| Claim 2 | 9 | 2.29 | 0.73 | 1.23 | 3.42 |
| Claim 3 | 10 | 2.25 | 1.02 | 0.25 | 4.05 |
| **All items** | **41** | **1.86** | **1.18** | **-0.59** | **5.14** |

Table 11.A. PT Item Statistics for Grade Three—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295879 | 1 | 0.40 | 3.03 | N/A |
| VH295881 | 4 | 0.64 | 0.03 | 0.76, 1.07, -0.24, -1.59 |
| VH295882 | 2 | 1.03 | -0.66 | 0.16, -0.16 |

Table 11.A. PT Item Statistics for Grade Four—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295861 | 1 | 0.52 | 1.41 | N/A |
| VH295859 | 4 | 0.55 | 0.16 | 0.21, 1.19, -0.18, -1.22 |
| VH295860 | 2 | 0.90 | -0.19 | 0.15, -0.15 |

Table 11.A. PT Item Statistics for Grade Five—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295924 | 1 | 0.40 | -0.66 | N/A |
| VH295921 | 4 | 0.57 | 0.29 | 0.49, 1.43, -0.06, -1.86 |
| VH295922 | 2 | 1.07 | -0.04 | 0.71, -0.71 |

Table 11.A. PT Item Statistics for Grade Six—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295437 | 2 | 0.73 | 1.49 | -0.02, 0.02 |
| VH295440 | 4 | 0.69 | 0.37 | 0.95, 0.97, -0.35, -1.57 |
| VH295441 | 2 | 1.11 | -0.03 | 0.32, -0.32 |

Table 11.A. PT Item Statistics for Grade Seven—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295526 | 2 | 0.71 | 1.72 | -0.34, 0.34 |
| VH295529 | 4 | 0.66 | 1.27 | 1.47, 0.62, -0.37, -1.72 |
| VH295530 | 2 | 0.90 | 0.58 | 0.26, -0.26 |

Table 11.A. PT Item Statistics for Grade Eight—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295485 | 1 | 0.22 | 1.46 | N/A |
| VH295487 | 4 | 0.75 | 0.96 | 2.39, 1.07, -1.02, -2.43 |
| VH295488 | 2 | 0.86 | -0.23 | 0.5, -0.5 |

Table 11.A. PT Item Statistics for Grade Eleven—ELA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295801 | 1 | 0.61 | 4.04 | N/A |
| VH295804 | 4 | 0.62 | 1.55 | 2.5, 0.64, -0.85, -2.29 |
| VH295805 | 2 | 0.75 | 1.10 | 0.56, -0.56 |

Table 11.A. PT Item Statistics for Grade Three—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324272 | 1 | 0.61 | -1.77 | N/A |
| VH324273 | 1 | 1.03 | -1.19 | N/A |
| VH324274 | 1 | 1.13 | -0.81 | N/A |
| 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 |

Table 11.A. PT Item Statistics for Grade Four—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324382 | 1 | 0.65 | -0.75 | N/A |
| VH299501 | 1 | 0.63 | 0.02 | N/A |
| 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 |

Table 11.A. PT Item Statistics for Grade Five—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324336 | 1 | 0.73 | 1.24 | N/A |
| VH324337 | 1 | 1.16 | 0.98 | N/A |
| VH299594 | 2 | 0.59 | -0.49 | -1.83, 1.83 |
| 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 |

Table 11.A. PT Item Statistics for Grade Six—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324185 | 1 | 0.74 | 1.43 | N/A |
| 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 | -0.5, 0.5 |

Table 11.A. PT Item Statistics for Grade Seven—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324170 | 1 | 0.83 | 0.31 | N/A |
| VH324171 | 1 | 0.96 | 1.12 | N/A |
| VH299212 | 1 | 1.68 | 2.54 | N/A |
| VH303301 | 2 | 0.77 | 2.42 | 0.1, -0.1 |
| VH303302 | 1 | 0.99 | 1.73 | N/A |
| VH299227 | 2 | 0.53 | 3.75 | 1.14, -1.14 |

Table 11.A. PT Item Statistics for Grade Eight—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299737 | 1 | 1.16 | 1.46 | N/A |
| VH299738 | 1 | 1.19 | 1.86 | N/A |
| VH299739 | 2 | 0.82 | 1.85 | -0.1, 0.1 |
| VH299742 | 1 | 0.86 | 0.85 | N/A |

Table 11.A. PT Item Statistics for Grade Eleven—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324183 | 2 | 0.44 | 2.87 | -0.69, 0.69 |
| VH300222 | 2 | 0.57 | 1.90 | 0.22, -0.22 |
| VH300224 | 2 | 0.34 | 2.74 | 1.97, -1.97 |
| VH324184 | 2 | 0.41 | 1.50 | -1.76, 1.76 |
| VH300226 | 2 | 0.48 | 3.42 | 0.87, -0.87 |