

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



# California Assessment of Student Performance and Progress Smarter Balanced Summative Assessment 2021–22 Technical Report

## Chapter 11 Appendix

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**By ETS**



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

Table 11.A.1 IRT *a-*values—ELA, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.80 | 0.19 | 0.47 | 1.07 |
| Claim 2 | 8 | 0.81 | 0.19 | 0.49 | 1.14 |
| Claim 3 | 8 | 0.66 | 0.13 | 0.44 | 0.82 |
| Claim 4 | 9 | 0.93 | 0.18 | 0.77 | 1.29 |
| **All items** | **41** | **0.80** | **0.19** | **0.44** | **1.29** |

Table 11.A.2 IRT *a-*values—ELA, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.66 | 0.17 | 0.35 | 1.02 |
| Claim 2 | 8 | 0.70 | 0.22 | 0.39 | 0.96 |
| Claim 3 | 8 | 0.65 | 0.13 | 0.42 | 0.88 |
| Claim 4 | 9 | 0.74 | 0.21 | 0.47 | 1.11 |
| **All items** | **41** | **0.68** | **0.18** | **0.35** | **1.11** |

Table 11.A.3 IRT *a*-values—ELA, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.58 | 0.13 | 0.32 | 0.80 |
| Claim 2 | 8 | 0.80 | 0.12 | 0.63 | 1.00 |
| Claim 3 | 8 | 0.61 | 0.10 | 0.46 | 0.80 |
| Claim 4 | 9 | 0.93 | 0.18 | 0.59 | 1.18 |
| **All items** | **41** | **0.71** | **0.20** | **0.32** | **1.18** |

Table 11.A.4 IRT *a*-values—ELA, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 15 | 0.55 | 0.15 | 0.26 | 0.76 |
| Claim 2 | 8 | 0.83 | 0.15 | 0.68 | 1.14 |
| Claim 3 | 8 | 0.71 | 0.18 | 0.37 | 0.91 |
| Claim 4 | 9 | 0.86 | 0.09 | 0.72 | 0.97 |
| **All items** | **40** | **0.71** | **0.19** | **0.26** | **1.14** |

Table 11.A.5 IRT *a*-values—ELA, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 14 | 0.68 | 0.18 | 0.48 | 1.11 |
| Claim 2 | 8 | 0.72 | 0.21 | 0.44 | 1.00 |
| Claim 3 | 8 | 0.67 | 0.08 | 0.53 | 0.79 |
| Claim 4 | 9 | 0.68 | 0.16 | 0.37 | 0.87 |
| **All items** | **39** | **0.69** | **0.16** | **0.37** | **1.11** |

Table 11.A.6 IRT *a*-values—ELA, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 17 | 0.70 | 0.19 | 0.38 | 1.10 |
| Claim 2 | 8 | 0.71 | 0.12 | 0.52 | 0.86 |
| Claim 3 | 9 | 0.58 | 0.18 | 0.23 | 0.80 |
| Claim 4 | 9 | 0.63 | 0.13 | 0.49 | 0.84 |
| **All items** | **43** | **0.66** | **0.17** | **0.23** | **1.10** |

Table 11.A.7 IRT *a*-values—ELA, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.64 | 0.20 | 0.30 | 1.06 |
| Claim 2 | 8 | 0.68 | 0.14 | 0.47 | 0.83 |
| Claim 3 | 9 | 0.64 | 0.12 | 0.44 | 0.78 |
| Claim 4 | 9 | 0.75 | 0.10 | 0.63 | 0.96 |
| **All items** | **42** | **0.67** | **0.16** | **0.30** | **1.06** |

Table 11.A.8 IRT *a*-values—Mathematics, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.82 | 0.33 | 0.32 | 1.35 |
| Claim 2 | 10 | 0.93 | 0.14 | 0.71 | 1.14 |
| Claim 3 | 10 | 1.03 | 0.20 | 0.84 | 1.35 |
| **All items** | **40** | **0.90** | **0.27** | **0.32** | **1.35** |

Table 11.A.9 IRT *a*-values—Mathematics, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.85 | 0.30 | 0.20 | 1.30 |
| Claim 2 | 10 | 0.86 | 0.23 | 0.36 | 1.11 |
| Claim 3 | 10 | 0.94 | 0.10 | 0.74 | 1.06 |
| **All items** | **40** | **0.88** | **0.24** | **0.20** | **1.30** |

Table 11.A.10 IRT *a*-values—Mathematics, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 19 | 0.85 | 0.26 | 0.56 | 1.55 |
| Claim 2 | 10 | 0.87 | 0.18 | 0.60 | 1.26 |
| Claim 3 | 10 | 0.81 | 0.23 | 0.47 | 1.14 |
| **All items** | **39** | **0.84** | **0.23** | **0.47** | **1.55** |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 19 | 0.77 | 0.25 | 0.35 | 1.20 |
| Claim 2 | 10 | 0.85 | 0.11 | 0.68 | 1.09 |
| Claim 3 | 10 | 0.76 | 0.20 | 0.44 | 1.09 |
| **All items** | **39** | **0.79** | **0.21** | **0.35** | **1.20** |

Table 11.A.12 IRT *a*-values—Mathematics, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.69 | 0.23 | 0.37 | 1.17 |
| Claim 2 | 10 | 0.75 | 0.19 | 0.51 | 1.07 |
| Claim 3 | 10 | 0.69 | 0.19 | 0.35 | 0.95 |
| **All items** | **40** | **0.70** | **0.21** | **0.35** | **1.17** |

Table 11.A.13 IRT *a*-values—Mathematics, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.61 | 0.27 | 0.12 | 1.13 |
| Claim 2 | 10 | 0.66 | 0.33 | 0.22 | 1.16 |
| Claim 3 | 9 | 0.59 | 0.13 | 0.47 | 0.79 |
| **All items** | **39** | **0.62** | **0.26** | **0.12** | **1.16** |

Table 11.A.14 IRT *a*-values—Mathematics, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 22 | 0.62 | 0.28 | 0.19 | 1.09 |
| Claim 2 | 9 | 0.46 | 0.31 | 0.16 | 1.07 |
| Claim 3 | 10 | 0.64 | 0.20 | 0.29 | 0.93 |
| **All items** | **41** | **0.59** | **0.27** | **0.16** | **1.09** |

Table 11.A.15 IRT *b*-values—ELA, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | -0.71 | 1.19 | -2.27 | 2.42 |
| Claim 2 | 8 | -0.71 | 0.83 | -1.76 | 0.62 |
| Claim 3 | 8 | -0.84 | 0.73 | -2.09 | -0.01 |
| Claim 4 | 9 | -0.70 | 0.41 | -1.20 | 0.01 |
| **All items** | **41** | **-0.73** | **0.88** | **-2.27** | **2.42** |

Table 11.A.16 IRT *b*-values—ELA, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | -0.02 | 1.08 | -1.60 | 1.82 |
| Claim 2 | 8 | -0.08 | 0.82 | -1.26 | 1.02 |
| Claim 3 | 8 | -0.24 | 0.80 | -1.09 | 0.87 |
| Claim 4 | 9 | -0.20 | 0.87 | -1.04 | 1.92 |
| **All items** | **41** | **-0.12** | **0.91** | **-1.60** | **1.92** |

Table 11.A.17 IRT *b*-values—ELA, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.59 | 0.91 | -0.89 | 2.42 |
| Claim 2 | 8 | -0.11 | 0.59 | -1.06 | 0.50 |
| Claim 3 | 8 | 0.00 | 0.58 | -0.77 | 0.76 |
| Claim 4 | 9 | 0.29 | 0.84 | -0.82 | 1.58 |
| **All items** | **41** | **0.27** | **0.81** | **-1.06** | **2.42** |

Table 11.A.18 IRT *b*-values—ELA, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 15 | 1.09 | 1.11 | -0.98 | 2.67 |
| Claim 2 | 8 | 0.55 | 0.54 | -0.14 | 1.55 |
| Claim 3 | 8 | 0.24 | 1.20 | -1.28 | 2.20 |
| Claim 4 | 9 | 1.05 | 0.64 | -0.08 | 2.03 |
| **All items** | **40** | **0.80** | **0.98** | **-1.28** | **2.67** |

Table 11.A.19 IRT *b*-values—ELA, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 14 | 1.14 | 1.35 | -0.61 | 2.91 |
| Claim 2 | 8 | 0.77 | 0.62 | -0.13 | 1.72 |
| Claim 3 | 8 | 0.44 | 0.96 | -0.77 | 1.81 |
| Claim 4 | 9 | 0.80 | 0.94 | -0.62 | 2.11 |
| **All items** | **39** | **0.84** | **1.06** | **-0.77** | **2.91** |

Table 11.A.20 IRT *b*-values—ELA, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 17 | 1.30 | 1.05 | -0.53 | 2.69 |
| Claim 2 | 8 | 0.92 | 1.01 | -0.38 | 2.58 |
| Claim 3 | 9 | 0.76 | 1.06 | -0.69 | 2.67 |
| Claim 4 | 9 | 1.51 | 0.76 | 0.72 | 2.51 |
| **All items** | **43** | **1.16** | **1.00** | **-0.69** | **2.69** |

Table 11.A.21 IRT *b*-values—ELA, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 1.22 | 0.83 | -0.29 | 2.94 |
| Claim 2 | 8 | 1.14 | 0.71 | -0.05 | 2.06 |
| Claim 3 | 9 | 1.15 | 0.86 | -0.36 | 2.50 |
| Claim 4 | 9 | 1.07 | 0.70 | 0.10 | 2.05 |
| **All items** | **42** | **1.16** | **0.76** | **-0.36** | **2.94** |

Table 11.A.22 IRT *b*-values—Mathematics, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | -1.15 | 0.92 | -2.57 | 1.09 |
| Claim 2 | 10 | -0.65 | 0.57 | -1.81 | 0.21 |
| Claim 3 | 10 | -0.65 | 0.67 | -1.57 | 0.22 |
| **All items** | **40** | **-0.90** | **0.81** | **-2.57** | **1.09** |

Table 11.A.23 IRT *b*-values—Mathematics, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | -0.23 | 1.24 | -1.81 | 4.11 |
| Claim 2 | 10 | -0.49 | 0.93 | -2.25 | 0.48 |
| Claim 3 | 10 | -0.17 | 0.81 | -1.30 | 0.78 |
| **All items** | **40** | **-0.28** | **1.06** | **-2.25** | **4.11** |

Table 11.A.24 IRT *b*-values—Mathematics, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 19 | -0.16 | 0.50 | -0.87 | 0.85 |
| Claim 2 | 10 | 0.58 | 0.57 | -0.35 | 1.42 |
| Claim 3 | 10 | 0.38 | 0.71 | -0.54 | 1.73 |
| **All items** | **39** | **0.17** | **0.65** | **-0.87** | **1.73** |

Table 11.A.25 IRT *b*-values—Mathematics, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 19 | 0.50 | 0.46 | -0.49 | 1.16 |
| Claim 2 | 10 | 0.56 | 1.14 | -1.42 | 1.86 |
| Claim 3 | 10 | 1.05 | 0.68 | 0.00 | 1.92 |
| **All items** | **39** | **0.65** | **0.75** | **-1.42** | **1.92** |

Table 11.A.26 IRT *b*-values—Mathematics, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 1.06 | 0.69 | -0.03 | 2.55 |
| Claim 2 | 10 | 1.19 | 1.01 | -0.75 | 3.10 |
| Claim 3 | 10 | 1.32 | 0.80 | 0.00 | 2.35 |
| **All items** | **40** | **1.16** | **0.79** | **-0.75** | **3.10** |

Table 11.A.27 IRT b-values—Mathematics, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.74 | 0.80 | -0.91 | 2.20 |
| Claim 2 | 10 | 1.76 | 1.16 | 0.28 | 4.02 |
| Claim 3 | 9 | 1.70 | 1.62 | -0.88 | 4.15 |
| **All items** | **39** | **1.22** | **1.20** | **-0.91** | **4.15** |

Table 11.A.28 IRT *b*-value—Mathematics, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 22 | 0.86 | 1.34 | -3.19 | 2.87 |
| Claim 2 | 9 | 1.18 | 1.22 | -1.06 | 2.59 |
| Claim 3 | 10 | 0.94 | 1.39 | -1.05 | 3.20 |
| **All items** | **41** | **0.95** | **1.30** | **-3.19** | **3.20** |

Table 11.A.29 PT Item Statistics—ELA, Grade Three

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH296066 | 1 | 0.86 | 0.01 | N/A |
| VH296069 | 4 | 0.49 | 0.62 | 0.12, 1.42, 0.17, -1.71 |
| VH296070 | 2 | 0.76 | -0.11 | -0.03, 0.03 |

Table 11.A.30 PT Item Statistics—ELA, Grade Four

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295425 | 1 | 0.47 | 1.92 | N/A |
| VH295427 | 4 | 0.39 | 0.97 | 2.10, 1.67, -0.61, -3.16 |
| VH295428 | 2 | 0.53 | -0.25 | -0.04, 0.04 |

Table 11.A.31 PT Item Statistics—ELA, Grade Five

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295235 | 1 | 0.59 | 1.58 | N/A |
| VH295239 | 4 | 0.73 | 0.14 | 1.42, 0.84, -0.44, -1.82 |
| VH295240 | 2 | 1.00 | 0.07 | 0.70, -0.70 |

Table 11.A.32 PT Item Statistics—ELA, Grade Six

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295678 | 2 | 0.86 | 2.03 | 0.19, -0.19 |
| VH295681 | 4 | 0.83 | 0.67 | 1.30, 1.07, -0.57, -1.81 |
| VH295682 | 2 | 1.14 | -0.14 | 0.25, -0.25 |

Table 11.A.33 PT Item Statistics—ELA, Grade Seven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295415 | 2 | 0.66 | 2.11 | 0.47, -0.47 |
| VH295411 | 4 | 0.88 | 1.24 | 2.21, 0.70, -0.68, -2.23 |
| VH295412 | 2 | 1.00 | -0.13 | 0.30, -0.30 |

Table 11.A.34 PT Item Statistics—ELA, Grade Eight

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295360 | 1 | 0.49 | 2.35 | N/A |
| VH295358 | 4 | 0.82 | 1.09 | 2.63, 0.80, -1.27, -2.16 |
| VH295359 | 2 | 0.82 | -0.11 | 0.42, -0.42 |

Table 11.A.35 PT Item Statistics—ELA, Grade Eleven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295284 | 2 | 0.63 | 0.74 | 0.27, -0.27 |
| VH295287 | 4 | 0.55 | 1.81 | 2.16, 1.00, -0.98, -2.17 |
| VH295288 | 2 | 0.80 | 1.26 | 0.41, -0.41 |

Table 11.A.36 PT Item Statistics—Mathematics, Grade Three

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| 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 |

Table 11.A.37 PT Item Statistics—Mathematics, Grade Four

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| 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 11.A.38 PT Item Statistics—Mathematics, Grade Five

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324334 | 1 | 0.90 | 0.73 | N/A |
| VH324338 | 1 | 1.26 | 0.83 | N/A |
| 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 |

Table 11.A.39 PT Item Statistics—Mathematics, Grade Six

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH299649 | 1 | 0.80 | -0.12 | N/A |
| 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 |

Table 11.A.40 PT Item Statistics—Mathematics, Grade Seven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| 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 |

Table 11.A.41 PT Item Statistics—Mathematics, Grade Eight

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH324249 | 1 | 0.98 | 1.74 | N/A |
| 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 |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| 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 |