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

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# California Assessment of Student Performance and Progress Smarter Balanced Technical Report 2018–‍2019 Administration

## Chapter 11 Appendices

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**Educational Testing Service**



**Contract No. CN150012**

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### Appendix 11.A: Special Services Summaries for Paper-Pencil Tests

Table 11.A. Number and Percent of Students in Special Education in 2018–2019

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Number of Students in ELA** | **Number of Students in Special Education. in ELA** | **Percent of Students in Special Education. in ELA** | **Number of Students in Mathematics** | **Number of Students in Special Education in Mathematics** | **Percent of Students in Special Education in Mathematics** |
| 3 | 16 | 9 | 56.25 | 15 | 9 | 60.00 |
| 4 | 17 | 12 | 70.59 | 17 | 12 | 70.59 |
| 5 | 14 | 10 | 71.43 | 14 | 10 | 71.43 |
| 6 | 25 | 17 | 68.00 | 25 | 17 | 68.00 |
| 7 | 12 | 7 | 58.33 | 10 | 5 | 50.00 |
| 8 | 15 | 12 | 80.00 | 14 | 11 | 78.57 |
| 11 | 7 | 7 | 100.00 | 8 | 8 | 100.00 |
| Total | 106 | 74 | 69.81 | 103 | 72 | 69.90 |

Table 11.A. Special Services Summary for ELA Paper-pencil Tests (PPTs): Grades Three Through Six—All Tested

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Accessibility Resource** | **Grade 3 Number**  | **Grade 3 Pct of Total** | **Grade 4 Number** | **Grade 4 Pct of Total** | **Grade 5 Number** | **Grade 5 Pct of Total** | **Grade 6 Number** | **Grade 6 Pct of Total** |
| Non-Embedded Accommodation—Alternate Response Options | 0 | 0.00 | 0 | 0.00 | 2 | 14.29 | 2 | 8.00 |
| Non-Embedded Accommodation—Braille | 2 | 12.50 | 4 | 23.53 | 5 | 35.71 | 8 | 32.00 |
| Non-Embedded Accommodation—Large Print  | 4 | 25.00 | 2 | 11.76 | 2 | 14.29 | 2 | 8.00 |
| Non-Embedded Accommodation—Read Aloud (Passages) | 3 | 18.75 | 4 | 23.53 | 1 | 7.14 | 2 | 8.00 |
| Non-Embedded Accommodation—Scribe  | 0 | 0.00 | 5 | 29.41 | 1 | 7.14 | 0 | 0.00 |
| Non-Embedded Accommodation—Speech-to-Text | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Bilingual Dictionary | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Medical Device | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Read Aloud (Except Passages) | 3 | 18.75 | 3 | 17.65 | 1 | 7.14 | 1 | 4.00 |
| Non-Embedded Designated Support—Scribe | 0 | 0.00 | 3 | 17.65 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Separate Setting | 6 | 37.50 | 5 | 29.41 | 5 | 35.71 | 6 | 24.00 |
| Non-Embedded Designated Support—Simplified Test Directions | 2 | 12.50 | 1 | 5.88 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Translated Test Directions | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Universal Tools—English Dictionary | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Other—Designated Support, Accommodation, or Universal Tool is in IEP | 6 | 37.50 | 7 | 41.18 | 6 | 42.86 | 10 | 40.00 |
| Other—Designated Support, Accommodation, or Universal Tool is in Section 504 plan | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |

Table 11.A. Special Services Summary for ELA PPTs: Grades Seven, Eight, and Eleven—All Tested

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Accessibility Resource** | **Grade 7 Number** | **Grade 7 Pct of Total** | **Grade 8 Number** | **Grade 8 Pct of Total** | **Grade 11 Number** | **Grade 11 Pct of Total** |
| Non-Embedded Accommodation—Alternate Response Options | 0 | 0.00 | 1 | 6.67 | 3 | 42.86 |
| Non-Embedded Accommodation—Braille | 3 | 25.00 | 2 | 13.33 | 4 | 57.14 |
| Non-Embedded Accommodation—Large Print | 0 | 0.00 | 1 | 6.67 | 0 | 0.00 |
| Non-Embedded Accommodation—Read Aloud (Passages) | 1 | 8.33 | 1 | 6.67 | 0 | 0.00 |
| Non-Embedded Accommodation—Scribe | 0 | 0.00 | 1 | 6.67 | 0 | 0.00 |
| Non-Embedded Accommodation—Speech-to-Text | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Bilingual Dictionary | 0 | 0.00 | 1 | 6.67 | 0 | 0.00 |
| Non-Embedded Designated Support—Medical Device | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Read Aloud (Except Passages) | 1 | 8.33 | 1 | 6.67 | 0 | 0.00 |
| Non-Embedded Designated Support—Scribe | 0 | 0.00 | 2 | 13.33 | 1 | 14.29 |
| Non-Embedded Designated Support—Separate Setting | 1 | 8.33 | 3 | 20.00 | 3 | 42.86 |
| Non-Embedded Designated Support—Simplified Test Directions | 0 | 0.00 | 2 | 13.33 | 1 | 14.29 |
| Non-Embedded Designated Support—Translated Test Directions | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Universal Tools—English Dictionary | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Other—Designated Support, Accommodation, or Universal Tool is in IEP | 3 | 25.00 | 4 | 26.67 | 5 | 71.43 |
| Other—Designated Support, Accommodation, or Universal Tool is in Section 504 Plan | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |

Table 11.A. Special Services Summary for Mathematics PPTs: Grades Three Through Six—All Tested

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Accessibility Resource** | **Grade 3 Number** | **Grade 3 Pct of Total** | **Grade 4 Number** | **Grade 4 Pct of Total** | **Grade 5 Number** | **Grade 5 Pct of Total** | **Grade 6 Number** | **Grade 6 Pct of Total** |
| Non-Embedded Accommodation—Abacus | 1 | 6.67 | 2 | 11.76 | 1 | 7.14 | 2 | 8.00 |
| Non-Embedded Accommodation—Alternate Response Options | 0 | 0.00 | 0 | 0.00 | 1 | 7.14 | 2 | 8.00 |
| Non-Embedded Accommodation—Braille | 2 | 13.33 | 5 | 29.41 | 5 | 35.71 | 9 | 36.00 |
| Non-Embedded Accommodation—Calculator | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 1 | 4.00 |
| Non-Embedded Accommodation—Large Print | 3 | 20.00 | 3 | 17.65 | 2 | 14.29 | 2 | 8.00 |
| Non-Embedded Accommodation—Multiplication Table | 0 | 0.00 | 1 | 5.88 | 1 | 7.14 | 2 | 8.00 |
| Non-Embedded Accommodation—100s Number Table | 0 | 0.00 | 1 | 5.88 | 1 | 7.14 | 0 | 0.00 |
| Non-Embedded Designated Support—Medical Device | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Read Aloud | 2 | 13.33 | 2 | 11.76 | 2 | 14.29 | 4 | 16.00 |
| Non-Embedded Designated Support—Scribe | 0 | 0.00 | 4 | 23.53 | 1 | 7.14 | 0 | 0.00 |
| Non-Embedded Designated Support—Separate Setting | 5 | 33.33 | 5 | 29.41 | 5 | 35.71 | 7 | 28.00 |
| Non-Embedded Designated Support—Simplified Test Directions | 2 | 13.33 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Translated Test Directions | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Translations (Glossary) | 1 | 6.67 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Other—Designated Support or Accommodation is in IEP | 6 | 40.00 | 8 | 47.06 | 6 | 42.86 | 11 | 44.00 |
| Other—Designated Support or Accommodation is in Section 504 Plan | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |

Table 11.A. Special Services Summary for Mathematics PPTs: Grades Seven, Eight, and Eleven—All Tested

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Accessibility Resource** | **Grade 7 Number** | **Grade 7 Pct of Total** | **Grade 8 Number** | **Grade 8 Pct of Total** | **Grade 11 Number** | **Grade 11 Pct of Total** |
| Non-Embedded Accommodation—Abacus | 0 | 0.00 | 1 | 7.14 | 0 | 0.00 |
| Non-Embedded Accommodations—Alternate Response Options | 0 | 0.00 | 2 | 14.29 | 4 | 50.00 |
| Non-Embedded Accommodations—Braille | 3 | 30.00 | 4 | 28.57 | 4 | 50.00 |
| Non-Embedded Accommodations—Calculator | 1 | 10.00 | 2 | 14.29 | 4 | 50.00 |
| Non-Embedded Accommodations—Large Print | 0 | 0.00 | 2 | 14.29 | 0 | 0.00 |
| Non-Embedded Accommodation—Multiplication Table | 0 | 0.00 | 1 | 7.14 | 1 | 12.50 |
| Non-Embedded Accommodation—100s Number Table | 0 | 0.00 | 0 | 0.00 | 1 | 12.50 |
| Non-Embedded Designated Support—Medical Device | 0 | 0.00 | 0 | 0.00 | 1 | 12.50 |
| Non-Embedded Designated Support—Read Aloud | 1 | 10.00 | 3 | 21.43 | 0 | 0.00 |
| Non-Embedded Designated Support—Scribe | 0 | 0.00 | 1 | 7.14 | 1 | 12.50 |
| Non-Embedded Designated Support—Separate Setting | 1 | 10.00 | 5 | 35.71 | 3 | 37.50 |
| Non-Embedded Designated Support—Simplified Test Directions | 0 | 0.00 | 2 | 14.29 | 2 | 25.00 |
| Non-Embedded Designated Support—Translated Test Directions | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Non-Embedded Designated Support—Translations (Glossary) | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Other—Designated Support or Accommodation is in IEP | 3 | 30.00 | 7 | 50.00 | 6 | 75.00 |
| Other—Designated Support or Accommodation is in Section 504 plan | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |

### Appendix 11.B: IRT Parameter Estimates

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a-*values for Grade Four—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a*-values for Grade Five—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a*-values for Grade Six—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a*-values for Grade Seven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a*-values for Grade Eight—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a*-values for Grade Eleven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 0.64 | 0.20 | 0.30 | 1.06 |
| Claim 2 | 8 | 0.68 | 0.13 | 0.47 | 0.83 |
| Claim 3 | 9 | 0.64 | 0.12 | 0.44 | 0.78 |
| Claim 4 | 9 | 0.74 | 0.11 | 0.60 | 0.96 |
| **All items** | 42 | 0.67 | 0.16 | 0.30 | 1.06 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a*-values for Grade Four—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a*-values for Grade Five—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *a*-values for Grade Six—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 19 | 0.77 | 0.26 | 0.35 | 1.24 |
| 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 | 1.24 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | 0.73 | 0.15 | 0.46 | 0.95 |
| **All items** | 40 | 0.71 | 0.20 | 0.37 | 1.17 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.66 | 0.20 | 0.37 | 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 | 0.65 | 0.22 | 0.22 | 1.16 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Three—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Four—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Five—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Six—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Seven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Eight—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Eleven—ELA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 16 | 1.22 | 0.83 | -0.29 | 2.94 |
| Claim 2 | 8 | 1.10 | 0.69 | -0.05 | 2.06 |
| Claim 3 | 9 | 1.15 | 0.86 | -0.36 | 2.50 |
| Claim 4 | 9 | 1.43 | 1.19 | 0.10 | 4.03 |
| **All items** | 42 | 1.23 | 0.88 | -0.36 | 4.03 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Four—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Five—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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.B. IRT *b*-values for Grade Six—Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 19 | 0.51 | 0.45 | -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 | 0.66 | 0.75 | -1.42 | 1.92 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | 1.22 | 0.90 | -0.66 | 2.35 |
| **All items** | 40 | 1.13 | 0.81 | -0.75 | 3.10 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Claim 1 | 20 | 0.81 | 0.84 | -1.51 | 2.20 |
| Claim 2 | 10 | 1.80 | 1.11 | 0.33 | 4.02 |
| Claim 3 | 9 | 1.70 | 1.62 | -0.88 | 4.15 |
| **All items** | 39 | 1.27 | 1.19 | -1.51 | 4.15 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 |

**Note for table 11.B.29 through table 11.B.36:**The mode of the distribution is **highlighted** and indicated using an asterisk.

Table 11.B. Distribution of IRT *a*-values for Non-PT Items for All Grades—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **Grade 3** | **Grade 4** | **Grade 5** | **Grade 6** | **Grade 7** | **Grade 8** | **Grade 11** |
| 0–< 0.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 0.2–< 0.4 | N/A | 2 | 1 | 3 | 1 | 3 | 3 |
| 0.4–< 0.6 | 6 | 8 | 12 | 8 | 12 | 12 | 8 |
| 0.6–< 0.8 | 12 | **\*17** | **\*14** | **\*15** | **\*15** | **\*19** | **\*21** |
| 0.8–< 1.0 | **\*16** | 9 | 6 | 11 | 7 | 5 | 6 |
| 1.0–< 1.2 | 3 | 2 | 5 | N/A | 1 | 1 | 1 |
| 1.2–< 1.4 | 1 | 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 11.B. Distribution of IRT *a*-values for Non-PT Items for All Grades—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **Grade 3** | **Grade 4** | **Grade 5** | **Grade 6** | **Grade 7** | **Grade 8** | **Grade 11** |
| 0–< 0.2 | N/A | 1 | N/A | N/A | N/A | N/A | 3 |
| 0.2–< 0.4 | 1 | 1 | N/A | 2 | 1 | 3 | 7 |
| 0.4–< 0.6 | 4 | 2 | 3 | 4 | 9 | **\*15** | **\*13** |
| 0.6–< 0.8 | 8 | 7 | **\*17** | 9 | **\*14** | 13 | 6 |
| 0.8–< 1.0 | **\*10** | **\*11** | 6 | **\*11** | 8 | 1 | 4 |
| 1.0–< 1.2 | 6 | 10 | 5 | 6 | 2 | 2 | 3 |
| 1.2–< 1.4 | 5 | 2 | N/A | 1 | N/A | N/A | N/A |
| 1.4–< 1.6 | N/A | N/A | 2 | 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 11.B. Distribution of IRT *b*-values for Non-PT Items for All Grades—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **Grade 3** | **Grade 4** | **Grade 5** | **Grade 6** | **Grade 7** | **Grade 8** | **Grade 11** |
| < -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 | 2 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | 7 | 1 | N/A | N/A | N/A | N/A | N/A |
| -1.5–< -1.0 | 8 | 7 | 1 | 2 | N/A | N/A | N/A |
| -1.0–< -0.5 | 8 | 7 | 6 | 2 | 5 | 2 | N/A |
| -0.5–< 0 | **\*9** | **\*8** | **\*9** | 4 | 4 | 4 | 3 |
| 0–< 0.5 | 2 | 6 | 7 | 6 | **\*6** | 5 | 4 |
| 0.5–< 1.0 | 1 | 6 | **\*9** | 5 | **\*6** | 6 | **\*11** |
| 1.0–< 1.5 | N/A | 2 | 3 | **\*8** | 5 | **\*8** | 7 |
| 1.5–< 2.0 | N/A | 1 | 2 | 5 | 4 | 5 | 7 |
| 2.0–< 2.5 | 1 | N/A | 1 | 4 | 2 | 4 | 6 |
| 2.5–< 3.0 | N/A | N/A | N/A | 1 | 4 | 6 | 1 |
| 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 11.B. Distribution of IRT *b*-values for Non-PT Items for All Grades—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **Grade 3** | **Grade 4** | **Grade 5** | **Grade 6** | **Grade 7** | **Grade 8** | **Grade 11** |
| < -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 | N/A | N/A | N/A | N/A | N/A | N/A |
| -2.5–< -2.0 | 1 | 1 | N/A | N/A | N/A | N/A | N/A |
| -2.0–< -1.5 | **\*9** | 3 | N/A | N/A | N/A | 1 | N/A |
| -1.5–< -1.0 | 8 | 5 | N/A | 1 | N/A | N/A | 2 |
| -1.0–< -0.5 | 6 | 5 | 7 | N/A | 1 | 2 | 2 |
| -0.5–< 0 | 5 | **\*10** | 8 | 3 | 1 | 1 | 4 |
| 0–< 0.5 | 2 | 7 | **\*12** | 9 | 4 | 5 | **\*6** |
| 0.5–< 1.0 | 1 | 2 | 5 | **\*10** | **\*12** | 7 | 5 |
| 1.0–< 1.5 | 1 | N/A | 1 | 6 | 7 | **\*9** | **\*6** |
| 1.5–< 2.0 | N/A | N/A | N/A | 4 | 5 | N/A | 3 |
| 2.0–< 2.5 | N/A | N/A | N/A | N/A | 2 | 5 | 5 |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | 1 | 2 | 2 |
| 3.0–< 3.5 | N/A | N/A | N/A | N/A | 1 | N/A | N/A |
| > = 3.5 | N/A | 1 | N/A | N/A | N/A | 2 | N/A |

Table 11.B. Distribution of IRT *a*-values for PT Items for All Grades—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **Grade 3** | **Grade 4** | **Grade 5** | **Grade 6** | **Grade 7** | **Grade 8** | **Grade 11** |
| 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 | **\*1** | **\*2** | **\*1** | N/A | N/A | 1 | N/A |
| 0.6–< 0.8 | **\*1** | N/A | **\*1** | N/A | **\*1** | N/A | **\*3** |
| 0.8–< 1.0 | **\*1** | N/A | **\*1** | **\*2** | **\*1** | **\*2** | N/A |
| 1.0–< 1.2 | N/A | N/A | N/A | 1 | **\*1** | 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 11.B. Distribution of IRT *a*-values for PT Items for All Grades—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **Grade 3** | **Grade 4** | **Grade 5** | **Grade 6** | **Grade 7** | **Grade 8** | **Grade 11** |
| 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 | **\*1** |
| 0.4–< 0.6 | N/A | N/A | 1 | 1 | N/A | N/A | **\*1** |
| 0.6–< 0.8 | 1 | **\*2** | N/A | **\*4** | **\*3** | 1 | **\*1** |
| 0.8–< 1.0 | **\*2** | **\*2** | **\*3** | 1 | 1 | **\*3** | **\*1** |
| 1.0–< 1.2 | **\*2** | **\*2** | 1 | N/A | 2 | 1 | **\*1** |
| 1.2–< 1.4 | 1 | N/A | 1 | 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 11.B. Distribution of IRT *b*-values for PT Items for All Grades—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **Grade 3** | **Grade 4** | **Grade 5** | **Grade 6** | **Grade 7** | **Grade 8** | **Grade 11** |
| < -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 | **\*1** | **\*1** | N/A | **\*1** | **\*1** | **\*1** | N/A |
| 0–< 0.5 | **\*1** | N/A | **\*2** | N/A | N/A | N/A | N/A |
| 0.5–< 1.0 | **\*1** | **\*1** | N/A | **\*1** | N/A | N/A | N/A |
| 1.0–< 1.5 | N/A | N/A | N/A | N/A | **\*1** | **\*1** | **\*1** |
| 1.5–< 2.0 | N/A | **\*1** | 1 | N/A | N/A | N/A | **\*1** |
| 2.0–< 2.5 | N/A | N/A | N/A | **\*1** | **\*1** | **\*1** | N/A |
| 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 | **\*1** |

Table 11.B. Distribution of IRT *b*-values for PT Items for All Grades—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **Grade 3** | **Grade 4** | **Grade 5** | **Grade 6** | **Grade 7** | **Grade 8** | **Grade 11** |
| < -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 | 1 | N/A | N/A | N/A | N/A | N/A | N/A |
| -1.0–< -0.5 | 1 | 1 | N/A | 1 | 1 | N/A | N/A |
| -0.5–< 0 | **\*2** | N/A | N/A | 2 | N/A | N/A | N/A |
| 0–< 0.5 | **\*2** | **\*2** | N/A | N/A | N/A | N/A | N/A |
| 0.5–< 1.0 | N/A | **\*2** | **\*4** | N/A | N/A | N/A | N/A |
| 1.0–< 1.5 | N/A | N/A | 1 | **\*3** | **\*3** | N/A | 1 |
| 1.5–< 2.0 | N/A | N/A | 1 | N/A | N/A | **\*2** | **\*2** |
| 2.0–< 2.5 | N/A | N/A | N/A | N/A | 2 | **\*2** | N/A |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | 1 | 1 |
| 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 11.B. PT Item Statistics for Grade Three—ELA

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295427 | 4 | 0.39 | 0.97 | 2.1, 1.67, -0.61, -3.16 |
| VH295428 | 2 | 0.53 | -0.25 | -0.04, 0.04 |
| VH295425 | 1 | 0.47 | 1.92 | N/A |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295239 | 4 | 0.73 | 0.14 | 1.42, 0.84, -0.44, -1.82 |
| VH295240 | 2 | 1.00 | 0.07 | 0.7, -0.7 |
| VH295235 | 1 | 0.59 | 1.58 | N/A |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295681 | 4 | 0.83 | 0.67 | 1.3, 1.07, -0.57, -1.81 |
| VH295682 | 2 | 1.14 | -0.14 | 0.25, -0.25 |
| VH295678 | 2 | 0.86 | 2.03 | 0.19, -0.19 |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295411 | 4 | 0.88 | 1.24 | 2.21, 0.7, -0.68, -2.23 |
| VH295412 | 2 | 1.00 | -0.13 | 0.3, -0.3 |
| VH295415 | 2 | 0.66 | 2.11 | 0.47, -0.47 |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295358 | 4 | 0.82 | 1.09 | 2.63, 0.8, -1.27, -2.16 |
| VH295359 | 2 | 0.82 | -0.11 | 0.42, -0.42 |
| VH295360 | 1 | 0.49 | 2.35 | N/A |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295853 | 4 | 0.61 | 1.70 | 2.67, 0.91, -0.85, -2.73 |
| VH295854 | 2 | 0.69 | 1.06 | 0.25, -0.25 |
| VH295849 | 1 | 0.60 | 4.03 | N/A |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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.B. PT Item Statistics for Grade Four—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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.B. PT Item Statistics for Grade Five—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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.B. PT Item Statistics for Grade Six—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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.B. PT Item Statistics for Grade Seven—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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.B. PT Item Statistics for Grade Eight—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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.B. PT Item Statistics for Grade Eleven—Mathematics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VR050198 | 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, 0.2 |