

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



# California Assessment of Student Performance and Progress Smarter Balanced Summative Assessment 2023–24 Technical Report

## Chapter 8 Appendices

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**By ETS**



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### Appendix 8.A: Test-Taking Rates

**Notes:**

* The number of students enrolled is derived from the 2023–24 data that was received in October 2024.
* A student is considered a test taker if a student logged on to both the computer adaptive test (CAT) and the performance task (PT) portions of the assessment, even if no items are answered.

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—English Language Arts/Literacy (ELA), Grade Three

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 415,066 | 403,784 | 97.28 |
| Male | 212,022 | 205,861 | 97.09 |
| Female | 202,940 | 197,821 | 97.48 |
| American Indian or Alaska Native | 1,678 | 1,614 | 96.19 |
| Asian | 43,181 | 41,798 | 96.80 |
| Native Hawaiian or Other Pacific Islander | 1,619 | 1,580 | 97.59 |
| Filipino | 8,564 | 8,451 | 98.68 |
| Hispanic or Latino | 230,844 | 224,663 | 97.32 |
| Black or African American | 19,373 | 18,862 | 97.36 |
| White | 83,665 | 81,429 | 97.33 |
| Two or more races | 26,142 | 25,387 | 97.11 |
| Unknown | 0 | 0 | N/A |
| English learner (EL) | 96,863 | 90,280 | 93.20 |
| English only (EO) | 267,844 | 263,529 | 98.39 |
| Reclassified fluent English proficient (RFEP) | 25,380 | 25,278 | 99.60 |
| Initial fluent English proficient (IFEP) | 24,717 | 24,582 | 99.45 |
| Adult English learner (ADEL) | 0 | 0 | N/A |
| English classification—To be determined (TBD) | 141 | 33 | 23.40 |
| English classification—No response | 121 | 82 | 67.77 |
| Disability | 57,560 | 55,250 | 95.99 |
| No disability | 357,506 | 348,534 | 97.49 |
| Economically disadvantaged | 272,413 | 265,600 | 97.50 |
| Not economically disadvantaged | 142,653 | 138,184 | 96.87 |
| Migrant education | 3,564 | 3,391 | 95.15 |
| Not migrant education | 411,502 | 400,393 | 97.30 |
| Armed forces family member | 6,227 | 6,115 | 98.20 |
| Not armed forces family member | 408,839 | 397,669 | 97.27 |
| Homeless | 15,669 | 14,355 | 91.61 |
| Not homeless | 399,397 | 389,429 | 97.50 |
| Foster youth | 1,480 | 1,441 | 97.36 |
| Not foster youth | 413,586 | 402,343 | 97.28 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—ELA, Grade Four

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 424,519 | 413,709 | 97.45 |
| Male | 216,783 | 210,956 | 97.31 |
| Female | 207,628 | 202,653 | 97.60 |
| American Indian or Alaska Native | 1,891 | 1,830 | 96.77 |
| Asian | 43,437 | 42,161 | 97.06 |
| Native Hawaiian or Other Pacific Islander | 1,731 | 1,687 | 97.46 |
| Filipino | 8,894 | 8,799 | 98.93 |
| Hispanic or Latino | 235,574 | 229,599 | 97.46 |
| Black or African American | 20,641 | 20,152 | 97.63 |
| White | 86,725 | 84,543 | 97.48 |
| Two or more races | 25,626 | 24,938 | 97.32 |
| Unknown | 0 | 0 | N/A |
| EL | 92,064 | 85,935 | 93.34 |
| EO | 267,802 | 263,598 | 98.43 |
| RFEP | 36,086 | 35,934 | 99.58 |
| IFEP | 28,332 | 28,156 | 99.38 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 139 | 24 | 17.27 |
| English classification—No response | 96 | 62 | 64.58 |
| Disability | 59,468 | 57,332 | 96.41 |
| No disability | 365,051 | 356,377 | 97.62 |
| Economically disadvantaged | 279,066 | 272,559 | 97.67 |
| Not economically disadvantaged | 145,453 | 141,150 | 97.04 |
| Migrant education | 3,504 | 3,342 | 95.38 |
| Not migrant education | 421,015 | 410,367 | 97.47 |
| Armed forces family member | 6,613 | 6,512 | 98.47 |
| Not armed forces family member | 417,906 | 407,197 | 97.44 |
| Homeless | 16,415 | 15,193 | 92.56 |
| Not homeless | 408,104 | 398,516 | 97.65 |
| Foster youth | 1,421 | 1,371 | 96.48 |
| Not foster youth | 423,098 | 412,338 | 97.46 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—ELA, Grade Five

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 429,091 | 418,627 | 97.56 |
| Male | 219,152 | 213,607 | 97.47 |
| Female | 209,817 | 204,903 | 97.66 |
| American Indian or Alaska Native | 1,874 | 1,813 | 96.74 |
| Asian | 45,336 | 44,186 | 97.46 |
| Native Hawaiian or Other Pacific Islander | 1,742 | 1,708 | 98.05 |
| Filipino | 9,477 | 9,377 | 98.94 |
| Hispanic or Latino | 238,037 | 232,400 | 97.63 |
| Black or African American | 21,438 | 20,915 | 97.56 |
| White | 86,357 | 84,045 | 97.32 |
| Two or more races | 24,830 | 24,183 | 97.39 |
| Unknown | 0 | 0 | N/A |
| EL | 82,017 | 76,386 | 93.13 |
| EO | 264,395 | 260,114 | 98.38 |
| RFEP | 55,788 | 55,549 | 99.57 |
| IFEP | 26,665 | 26,485 | 99.32 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 140 | 30 | 21.43 |
| English classification—No response | 86 | 63 | 73.26 |
| Disability | 58,882 | 56,734 | 96.35 |
| No disability | 370,209 | 361,893 | 97.75 |
| Economically disadvantaged | 281,277 | 275,045 | 97.78 |
| Not economically disadvantaged | 147,814 | 143,582 | 97.14 |
| Migrant education | 3,481 | 3,307 | 95.00 |
| Not migrant education | 425,610 | 415,320 | 97.58 |
| Armed forces family member | 6,592 | 6,487 | 98.41 |
| Not armed forces family member | 422,499 | 412,140 | 97.55 |
| Homeless | 16,004 | 14,838 | 92.71 |
| Not homeless | 413,087 | 403,789 | 97.75 |
| Foster youth | 1,412 | 1,360 | 96.32 |
| Not foster youth | 427,679 | 417,267 | 97.57 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—ELA, Grade Six

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 431,858 | 420,681 | 97.41 |
| Male | 220,649 | 214,811 | 97.35 |
| Female | 211,007 | 205,680 | 97.48 |
| American Indian or Alaska Native | 1,863 | 1,790 | 96.08 |
| Asian | 44,529 | 43,485 | 97.66 |
| Native Hawaiian or Other Pacific Islander | 1,861 | 1,809 | 97.21 |
| Filipino | 9,547 | 9,421 | 98.68 |
| Hispanic or Latino | 242,433 | 236,370 | 97.50 |
| Black or African American | 21,634 | 21,034 | 97.23 |
| White | 85,997 | 83,485 | 97.08 |
| Two or more races | 23,994 | 23,287 | 97.05 |
| Unknown | 0 | 0 | N/A |
| EL | 73,865 | 68,633 | 92.92 |
| EO | 258,318 | 253,174 | 98.01 |
| RFEP | 82,731 | 82,234 | 99.40 |
| IFEP | 16,726 | 16,557 | 98.99 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 134 | 33 | 24.63 |
| English classification—No response | 84 | 50 | 59.52 |
| Disability | 56,615 | 54,331 | 95.97 |
| No disability | 375,243 | 366,350 | 97.63 |
| Economically disadvantaged | 284,389 | 277,509 | 97.58 |
| Not economically disadvantaged | 147,469 | 143,172 | 97.09 |
| Migrant education | 3,453 | 3,316 | 96.03 |
| Not migrant education | 428,405 | 417,365 | 97.42 |
| Armed forces family member | 5,234 | 5,135 | 98.11 |
| Not armed forces family member | 426,624 | 415,546 | 97.40 |
| Homeless | 15,333 | 14,198 | 92.60 |
| Not homeless | 416,525 | 406,483 | 97.59 |
| Foster youth | 1,395 | 1,332 | 95.48 |
| Not foster youth | 430,463 | 419,349 | 97.42 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—ELA, Grade Seven

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 438,515 | 424,808 | 96.87 |
| Male | 224,429 | 217,508 | 96.92 |
| Female | 213,779 | 207,024 | 96.84 |
| American Indian or Alaska Native | 1,908 | 1,801 | 94.39 |
| Asian | 42,763 | 41,735 | 97.60 |
| Native Hawaiian or Other Pacific Islander | 1,837 | 1,788 | 97.33 |
| Filipino | 9,720 | 9,620 | 98.97 |
| Hispanic or Latino | 248,297 | 240,793 | 96.98 |
| Black or African American | 22,263 | 21,364 | 95.96 |
| White | 88,193 | 85,041 | 96.43 |
| Two or more races | 23,534 | 22,666 | 96.31 |
| Unknown | 0 | 0 | N/A |
| EL | 66,465 | 61,299 | 92.23 |
| EO | 257,835 | 250,534 | 97.17 |
| RFEP | 96,620 | 95,711 | 99.06 |
| IFEP | 17,398 | 17,190 | 98.80 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 126 | 31 | 24.60 |
| English classification—No response | 71 | 43 | 60.56 |
| Disability | 55,773 | 52,815 | 94.70 |
| No disability | 382,742 | 371,993 | 97.19 |
| Economically disadvantaged | 285,503 | 276,825 | 96.96 |
| Not economically disadvantaged | 153,012 | 147,983 | 96.71 |
| Migrant education | 3,342 | 3,204 | 95.87 |
| Not migrant education | 435,173 | 421,604 | 96.88 |
| Armed forces family member | 5,158 | 5,008 | 97.09 |
| Not armed forces family member | 433,357 | 419,800 | 96.87 |
| Homeless | 14,485 | 13,265 | 91.58 |
| Not homeless | 424,030 | 411,543 | 97.06 |
| Foster youth | 1,499 | 1,387 | 92.53 |
| Not foster youth | 437,016 | 423,421 | 96.89 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—ELA, Grade Eight

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 441,144 | 425,295 | 96.41 |
| Male | 225,714 | 217,842 | 96.51 |
| Female | 214,997 | 207,071 | 96.31 |
| American Indian or Alaska Native | 1,946 | 1,828 | 93.94 |
| Asian | 42,998 | 42,012 | 97.71 |
| Native Hawaiian or Other Pacific Islander | 1,925 | 1,850 | 96.10 |
| Filipino | 10,172 | 10,053 | 98.83 |
| Hispanic or Latino | 249,286 | 240,896 | 96.63 |
| Black or African American | 22,480 | 21,509 | 95.68 |
| White | 89,505 | 85,306 | 95.31 |
| Two or more races | 22,832 | 21,841 | 95.66 |
| Unknown | 0 | 0 | N/A |
| EL | 56,268 | 51,504 | 91.53 |
| EO | 253,080 | 243,804 | 96.33 |
| RFEP | 113,078 | 111,705 | 98.79 |
| IFEP | 18,534 | 18,214 | 98.27 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 121 | 35 | 28.93 |
| English classification—No response | 63 | 33 | 52.38 |
| Disability | 54,561 | 50,950 | 93.38 |
| No disability | 386,583 | 374,345 | 96.83 |
| Economically disadvantaged | 286,629 | 276,986 | 96.64 |
| Not economically disadvantaged | 154,515 | 148,309 | 95.98 |
| Migrant education | 3,394 | 3,264 | 96.17 |
| Not migrant education | 437,750 | 422,031 | 96.41 |
| Armed forces family member | 6,161 | 5,982 | 97.09 |
| Not armed forces family member | 434,983 | 419,313 | 96.40 |
| Homeless | 14,450 | 13,257 | 91.74 |
| Not homeless | 426,694 | 412,038 | 96.57 |
| Foster youth | 1,611 | 1,447 | 89.82 |
| Not foster youth | 439,533 | 423,848 | 96.43 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—ELA, Grade Eleven

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 463,255 | 436,268 | 94.17 |
| Male | 237,480 | 223,486 | 94.11 |
| Female | 224,689 | 211,826 | 94.28 |
| American Indian or Alaska Native | 2,143 | 1,925 | 89.83 |
| Asian | 44,637 | 43,216 | 96.82 |
| Native Hawaiian or Other Pacific Islander | 2,017 | 1,872 | 92.81 |
| Filipino | 11,603 | 11,283 | 97.24 |
| Hispanic or Latino | 262,623 | 247,903 | 94.40 |
| Black or African American | 22,828 | 20,838 | 91.28 |
| White | 95,536 | 88,950 | 93.11 |
| Two or more races | 21,868 | 20,281 | 92.74 |
| Unknown | 0 | 0 | N/A |
| EL | 52,141 | 46,317 | 88.83 |
| EO | 251,186 | 235,493 | 93.75 |
| RFEP | 138,202 | 133,697 | 96.74 |
| IFEP | 21,325 | 20,580 | 96.51 |
| ADEL | 164 | 95 | 57.93 |
| English classification—TBD | 134 | 34 | 25.37 |
| English classification—No response | 103 | 52 | 50.49 |
| Disability | 54,791 | 48,300 | 88.15 |
| No disability | 408,464 | 387,968 | 94.98 |
| Economically disadvantaged | 289,081 | 272,271 | 94.19 |
| Not economically disadvantaged | 174,174 | 163,997 | 94.16 |
| Migrant education | 3,188 | 3,027 | 94.95 |
| Not migrant education | 460,067 | 433,241 | 94.17 |
| Armed forces family member | 6,428 | 6,193 | 96.34 |
| Not armed forces family member | 456,827 | 430,075 | 94.14 |
| Homeless | 15,323 | 13,563 | 88.51 |
| Not homeless | 447,932 | 422,705 | 94.37 |
| Foster youth | 2,116 | 1,723 | 81.43 |
| Not foster youth | 461,139 | 434,545 | 94.23 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—Mathematics, Grade Three

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 415,066 | 408,747 | 98.48 |
| Male | 212,022 | 208,436 | 98.31 |
| Female | 202,940 | 200,209 | 98.65 |
| American Indian or Alaska Native | 1,678 | 1,615 | 96.25 |
| Asian | 43,181 | 42,785 | 99.08 |
| Native Hawaiian or Other Pacific Islander | 1,619 | 1,588 | 98.09 |
| Filipino | 8,564 | 8,486 | 99.09 |
| Hispanic or Latino | 230,844 | 227,919 | 98.73 |
| Black or African American | 19,373 | 18,862 | 97.36 |
| White | 83,665 | 81,983 | 97.99 |
| Two or more races | 26,142 | 25,509 | 97.58 |
| Unknown | 0 | 0 | N/A |
| EL | 96,863 | 95,551 | 98.65 |
| EO | 267,844 | 263,213 | 98.27 |
| RFEP | 25,380 | 25,273 | 99.58 |
| IFEP | 24,717 | 24,568 | 99.40 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 141 | 60 | 42.55 |
| English classification—No response | 121 | 82 | 67.77 |
| Disability | 57,560 | 55,197 | 95.89 |
| No disability | 357,506 | 353,550 | 98.89 |
| Economically disadvantaged | 272,413 | 268,608 | 98.60 |
| Not economically disadvantaged | 142,653 | 140,139 | 98.24 |
| Migrant education | 3,564 | 3,538 | 99.27 |
| Not migrant education | 411,502 | 405,209 | 98.47 |
| Armed forces family member | 6,227 | 6,128 | 98.41 |
| Not armed forces family member | 408,839 | 402,619 | 98.48 |
| Homeless | 15,669 | 15,288 | 97.57 |
| Not homeless | 399,397 | 393,459 | 98.51 |
| Foster youth | 1,480 | 1,439 | 97.23 |
| Not foster youth | 413,586 | 407,308 | 98.48 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—Mathematics, Grade Four

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 424,519 | 418,345 | 98.55 |
| Male | 216,783 | 213,396 | 98.44 |
| Female | 207,628 | 204,849 | 98.66 |
| American Indian or Alaska Native | 1,891 | 1,837 | 97.14 |
| Asian | 43,437 | 43,056 | 99.12 |
| Native Hawaiian or Other Pacific Islander | 1,731 | 1,705 | 98.50 |
| Filipino | 8,894 | 8,828 | 99.26 |
| Hispanic or Latino | 235,574 | 232,666 | 98.77 |
| Black or African American | 20,641 | 20,133 | 97.54 |
| White | 86,725 | 85,047 | 98.07 |
| Two or more races | 25,626 | 25,073 | 97.84 |
| Unknown | 0 | 0 | N/A |
| EL | 92,064 | 90,895 | 98.73 |
| EO | 267,802 | 263,272 | 98.31 |
| RFEP | 36,086 | 35,914 | 99.52 |
| IFEP | 28,332 | 28,144 | 99.34 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 139 | 58 | 41.73 |
| English classification—No response | 96 | 62 | 64.58 |
| Disability | 59,468 | 57,216 | 96.21 |
| No disability | 365,051 | 361,129 | 98.93 |
| Economically disadvantaged | 279,066 | 275,406 | 98.69 |
| Not economically disadvantaged | 145,453 | 142,939 | 98.27 |
| Migrant education | 3,504 | 3,471 | 99.06 |
| Not migrant education | 421,015 | 414,874 | 98.54 |
| Armed forces family member | 6,613 | 6,515 | 98.52 |
| Not armed forces family member | 417,906 | 411,830 | 98.55 |
| Homeless | 16,415 | 16,045 | 97.75 |
| Not homeless | 408,104 | 402,300 | 98.58 |
| Foster youth | 1,421 | 1,363 | 95.92 |
| Not foster youth | 423,098 | 416,982 | 98.55 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—Mathematics, Grade Five

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 429,092 | 422,715 | 98.51 |
| Male | 219,152 | 215,749 | 98.45 |
| Female | 209,818 | 206,848 | 98.58 |
| American Indian or Alaska Native | 1,874 | 1,806 | 96.37 |
| Asian | 45,336 | 44,975 | 99.20 |
| Native Hawaiian or Other Pacific Islander | 1,742 | 1,710 | 98.16 |
| Filipino | 9,477 | 9,415 | 99.35 |
| Hispanic or Latino | 238,038 | 235,138 | 98.78 |
| Black or African American | 21,438 | 20,915 | 97.56 |
| White | 86,357 | 84,475 | 97.82 |
| Two or more races | 24,830 | 24,281 | 97.79 |
| Unknown | 0 | 0 | N/A |
| EL | 82,017 | 80,818 | 98.54 |
| EO | 264,396 | 259,770 | 98.25 |
| RFEP | 55,788 | 55,509 | 99.50 |
| IFEP | 26,665 | 26,478 | 99.30 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 140 | 76 | 54.29 |
| English classification—No response | 86 | 64 | 74.42 |
| Disability | 58,883 | 56,645 | 96.20 |
| No disability | 370,209 | 366,070 | 98.88 |
| Economically disadvantaged | 281,278 | 277,489 | 98.65 |
| Not economically disadvantaged | 147,814 | 145,226 | 98.25 |
| Migrant education | 3,481 | 3,446 | 98.99 |
| Not migrant education | 425,611 | 419,269 | 98.51 |
| Armed forces family member | 6,592 | 6,499 | 98.59 |
| Not armed forces family member | 422,500 | 416,216 | 98.51 |
| Homeless | 16,004 | 15,591 | 97.42 |
| Not homeless | 413,088 | 407,124 | 98.56 |
| Foster youth | 1,412 | 1,359 | 96.25 |
| Not foster youth | 427,680 | 421,356 | 98.52 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—Mathematics, Grade Six

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 431,857 | 424,028 | 98.19 |
| Male | 220,649 | 216,534 | 98.14 |
| Female | 211,006 | 207,304 | 98.25 |
| American Indian or Alaska Native | 1,863 | 1,788 | 95.97 |
| Asian | 44,528 | 44,176 | 99.21 |
| Native Hawaiian or Other Pacific Islander | 1,861 | 1,817 | 97.64 |
| Filipino | 9,547 | 9,474 | 99.24 |
| Hispanic or Latino | 242,433 | 238,695 | 98.46 |
| Black or African American | 21,634 | 20,961 | 96.89 |
| White | 85,997 | 83,784 | 97.43 |
| Two or more races | 23,994 | 23,333 | 97.25 |
| Unknown | 0 | 0 | N/A |
| EL | 73,865 | 72,556 | 98.23 |
| EO | 258,317 | 252,652 | 97.81 |
| RFEP | 82,731 | 82,143 | 99.29 |
| IFEP | 16,726 | 16,563 | 99.03 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 134 | 62 | 46.27 |
| English classification—No response | 84 | 52 | 61.90 |
| Disability | 56,614 | 54,125 | 95.60 |
| No disability | 375,243 | 369,903 | 98.58 |
| Economically disadvantaged | 284,389 | 279,544 | 98.30 |
| Not economically disadvantaged | 147,468 | 144,484 | 97.98 |
| Migrant education | 3,453 | 3,426 | 99.22 |
| Not migrant education | 428,404 | 420,602 | 98.18 |
| Armed forces family member | 5,234 | 5,135 | 98.11 |
| Not armed forces family member | 426,623 | 418,893 | 98.19 |
| Homeless | 15,333 | 14,876 | 97.02 |
| Not homeless | 416,524 | 409,152 | 98.23 |
| Foster youth | 1,395 | 1,329 | 95.27 |
| Not foster youth | 430,462 | 422,699 | 98.20 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—Mathematics, Grade Seven

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 438,515 | 427,275 | 97.44 |
| Male | 224,429 | 218,883 | 97.53 |
| Female | 213,779 | 208,115 | 97.35 |
| American Indian or Alaska Native | 1,908 | 1,796 | 94.13 |
| Asian | 42,763 | 42,325 | 98.98 |
| Native Hawaiian or Other Pacific Islander | 1,837 | 1,790 | 97.44 |
| Filipino | 9,720 | 9,628 | 99.05 |
| Hispanic or Latino | 248,297 | 242,508 | 97.67 |
| Black or African American | 22,263 | 21,274 | 95.56 |
| White | 88,193 | 85,273 | 96.69 |
| Two or more races | 23,534 | 22,681 | 96.38 |
| Unknown | 0 | 0 | N/A |
| EL | 66,465 | 64,736 | 97.40 |
| EO | 257,835 | 249,696 | 96.84 |
| RFEP | 96,620 | 95,562 | 98.90 |
| IFEP | 17,398 | 17,186 | 98.78 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 126 | 51 | 40.48 |
| English classification—No response | 71 | 44 | 61.97 |
| Disability | 55,773 | 52,576 | 94.27 |
| No disability | 382,742 | 374,699 | 97.90 |
| Economically disadvantaged | 285,503 | 278,335 | 97.49 |
| Not economically disadvantaged | 153,012 | 148,940 | 97.34 |
| Migrant education | 3,342 | 3,288 | 98.38 |
| Not migrant education | 435,173 | 423,987 | 97.43 |
| Armed forces family member | 5,158 | 5,023 | 97.38 |
| Not armed forces family member | 433,357 | 422,252 | 97.44 |
| Homeless | 14,485 | 13,880 | 95.82 |
| Not homeless | 424,030 | 413,395 | 97.49 |
| Foster youth | 1,499 | 1,371 | 91.46 |
| Not foster youth | 437,016 | 425,904 | 97.46 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—Mathematics, Grade Eight

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 441,144 | 427,334 | 96.87 |
| Male | 225,714 | 218,989 | 97.02 |
| Female | 214,997 | 207,964 | 96.73 |
| American Indian or Alaska Native | 1,946 | 1,813 | 93.17 |
| Asian | 42,998 | 42,479 | 98.79 |
| Native Hawaiian or Other Pacific Islander | 1,925 | 1,858 | 96.52 |
| Filipino | 10,172 | 10,061 | 98.91 |
| Hispanic or Latino | 249,286 | 242,377 | 97.23 |
| Black or African American | 22,480 | 21,425 | 95.31 |
| White | 89,505 | 85,477 | 95.50 |
| Two or more races | 22,832 | 21,844 | 95.67 |
| Unknown | 0 | 0 | N/A |
| EL | 56,268 | 54,478 | 96.82 |
| EO | 253,080 | 243,033 | 96.03 |
| RFEP | 113,078 | 111,534 | 98.63 |
| IFEP | 18,534 | 18,194 | 98.17 |
| ADEL | 0 | 0 | N/A |
| English classification—TBD | 121 | 60 | 49.59 |
| English classification—No response | 63 | 35 | 55.56 |
| Disability | 54,561 | 50,732 | 92.98 |
| No disability | 386,583 | 376,602 | 97.42 |
| Economically disadvantaged | 286,629 | 278,200 | 97.06 |
| Not economically disadvantaged | 154,515 | 149,134 | 96.52 |
| Migrant education | 3,394 | 3,349 | 98.67 |
| Not migrant education | 437,750 | 423,985 | 96.86 |
| Armed forces family member | 6,161 | 5,978 | 97.03 |
| Not armed forces family member | 434,983 | 421,356 | 96.87 |
| Homeless | 14,450 | 13,766 | 95.27 |
| Not homeless | 426,694 | 413,568 | 96.92 |
| Foster youth | 1,611 | 1,431 | 88.83 |
| Not foster youth | 439,533 | 425,903 | 96.90 |

Table 8.A. CAASPP Smarter Balanced Test-Taking Rates—Mathematics, Grade Eleven

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Group** | **Number of Students Enrolled** | **Number of Students Tested** | **Percent of Test-Taking Rates** |
| All | 463,254 | 435,325 | 93.97 |
| Male | 237,480 | 223,143 | 93.96 |
| Female | 224,688 | 211,237 | 94.01 |
| American Indian or Alaska Native | 2,143 | 1,887 | 88.05 |
| Asian | 44,637 | 43,230 | 96.85 |
| Native Hawaiian or Other Pacific Islander | 2,017 | 1,855 | 91.97 |
| Filipino | 11,603 | 11,260 | 97.04 |
| Hispanic or Latino | 262,623 | 247,676 | 94.31 |
| Black or African American | 22,828 | 20,632 | 90.38 |
| White | 95,535 | 88,585 | 92.73 |
| Two or more races | 21,868 | 20,200 | 92.37 |
| Unknown | 0 | 0 | N/A |
| EL | 52,141 | 47,374 | 90.86 |
| EO | 251,185 | 234,120 | 93.21 |
| RFEP | 138,202 | 133,125 | 96.33 |
| IFEP | 21,325 | 20,517 | 96.21 |
| ADEL | 164 | 97 | 59.15 |
| English classification—TBD | 134 | 40 | 29.85 |
| English classification—No response | 103 | 52 | 50.49 |
| Disability | 54,790 | 47,811 | 87.26 |
| No disability | 408,464 | 387,514 | 94.87 |
| Economically disadvantaged | 289,081 | 271,491 | 93.92 |
| Not economically disadvantaged | 174,173 | 163,834 | 94.06 |
| Migrant education | 3,188 | 3,060 | 95.98 |
| Not migrant education | 460,066 | 432,265 | 93.96 |
| Armed forces family member | 6,428 | 6,193 | 96.34 |
| Not armed forces family member | 456,826 | 429,132 | 93.94 |
| Homeless | 15,323 | 13,671 | 89.22 |
| Not homeless | 447,931 | 421,654 | 94.13 |
| Foster youth | 2,116 | 1,702 | 80.43 |
| Not foster youth | 461,138 | 433,623 | 94.03 |

### 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—ELA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Section** | **0** | **(0, 0.5]** | **(0.5, 1]** | **(1, 5]** | **(5, 10]** | **(10, 50]** | **(50, 100]** |
| Grade 3 PT No. of Items | 25 | 50 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 PT Mean a | 0.65 | 0.61 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 PT Mean b | 0.34 | −0.55 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT No. of Items | 943 | 68 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT Mean a | 0.63 | 0.62 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT Mean b | −0.48 | −0.93 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT No. of Items | 27 | 54 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT Mean a | 0.59 | 0.57 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT Mean b | 0.63 | −0.26 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT No. of Items | 938 | 75 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT Mean a | 0.58 | 0.62 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT Mean b | −0.01 | −0.50 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 PT No. of Items | 27 | 54 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 PT Mean a | 0.64 | 0.61 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 PT Mean b | 0.76 | −0.15 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 CAT No. of Items | 938 | 78 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 CAT Mean a | 0.59 | 0.62 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 CAT Mean b | 0.26 | −0.40 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 PT No. of Items | 20 | 40 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 PT Mean a | 0.66 | 0.71 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 PT Mean b | 1.25 | 0.07 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 CAT No. of Items | 858 | 134 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 CAT Mean a | 0.54 | 0.59 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 CAT Mean b | 0.84 | 0.28 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 PT No. of Items | 29 | 58 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 PT Mean a | 0.68 | 0.79 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 PT Mean b | 1.69 | 0.43 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 CAT No. of Items | 794 | 177 | 1 | N/A | N/A | N/A | N/A |
| Grade 7 CAT Mean a | 0.51 | 0.55 | 0.75 | N/A | N/A | N/A | N/A |
| Grade 7 CAT Mean b | 1.22 | 0.67 | 0.54 | N/A | N/A | N/A | N/A |
| Grade 8 PT No. of Items | 29 | 58 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 PT Mean a | 0.65 | 0.73 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 PT Mean b | 1.88 | 0.29 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 CAT No. of Items | 785 | 178 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 CAT Mean a | 0.49 | 0.56 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 CAT Mean b | 1.30 | 0.65 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 PT No. of Items | 29 | 58 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 PT Mean a | 0.56 | 0.59 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 PT Mean b | 1.90 | 1.07 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 CAT No. of Items | 2,469 | 291 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 CAT Mean a | 0.47 | 0.51 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 CAT Mean b | 1.83 | 1.23 | N/A | N/A | N/A | N/A | N/A |

Table 8.B. Percentage Omit Rates—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Section** | **0** | **(0, 0.5]** | **(0.5, 1]** | **(1, 5]** | **(5, 10]** | **(10, 50]** | **(50, 100]** |
| Grade 3 PT No. of Items | 38 | 70 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 PT Mean a | 0.98 | 0.82 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 PT Mean b | −1.14 | −0.40 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT No. of Items | 1,199 | 35 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT Mean a | 0.82 | 0.80 | N/A | N/A | N/A | N/A | N/A |
| Grade 3 CAT Mean b | −0.80 | −1.12 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT No. of Items | 26 | 71 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT Mean a | 0.89 | 0.81 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 PT Mean b | −0.82 | 0.20 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT No. of Items | 1,256 | 30 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT Mean a | 0.81 | 0.79 | N/A | N/A | N/A | N/A | N/A |
| Grade 4 CAT Mean b | −0.08 | −0.78 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 PT No. of Items | 50 | 95 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 PT Mean a | 0.78 | 0.72 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 PT Mean b | −0.13 | 0.90 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 CAT No. of Items | 1,226 | 31 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 CAT Mean a | 0.74 | 0.72 | N/A | N/A | N/A | N/A | N/A |
| Grade 5 CAT Mean b | 0.40 | −0.39 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 PT No. of Items | 11 | 81 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 PT Mean a | 0.70 | 0.68 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 PT Mean b | −0.06 | 0.90 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 CAT No. of Items | 1,153 | 51 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 CAT Mean a | 0.68 | 0.65 | N/A | N/A | N/A | N/A | N/A |
| Grade 6 CAT Mean b | 1.03 | 0.15 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 PT No. of Items | 6 | 53 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 PT Mean a | 0.67 | 0.81 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 PT Mean b | 0.99 | 1.27 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 CAT No. of Items | 1,146 | 66 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 CAT Mean a | 0.70 | 0.67 | N/A | N/A | N/A | N/A | N/A |
| Grade 7 CAT Mean b | 1.67 | 0.49 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 PT No. of Items | 7 | 45 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 PT Mean a | 0.73 | 0.76 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 PT Mean b | 0.53 | 1.58 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 CAT No. of Items | 930 | 58 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 CAT Mean a | 0.56 | 0.54 | N/A | N/A | N/A | N/A | N/A |
| Grade 8 CAT Mean b | 2.02 | 0.94 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 PT No. of Items | 7 | 59 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 PT Mean a | 0.63 | 0.64 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 PT Mean b | 1.63 | 2.51 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 CAT No. of Items | 2,349 | 75 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 CAT Mean a | 0.57 | 0.49 | N/A | N/A | N/A | N/A | N/A |
| Grade 11 CAT Mean b | 2.41 | 1.19 | N/A | 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 | 403,574 |
| Grade 3 Composite Claim 1 | 99.99 | 403,518 |
| Grade 3 Composite Claim 2 | 99.92 | 403,257 |
| Grade 3 PT | 100.00 | 403,574 |
| Grade 3 Non-PT | 100.00 | 403,574 |
| Grade 4 Overall | 100.00 | 413,479 |
| Grade 4 Composite Claim 1 | 99.98 | 413,412 |
| Grade 4 Composite Claim 2 | 99.92 | 413,149 |
| Grade 4 PT | 100.00 | 413,479 |
| Grade 4 Non-PT | 100.00 | 413,479 |
| Grade 5 Overall | 100.00 | 418,413 |
| Grade 5 Composite Claim 1 | 99.99 | 418,358 |
| Grade 5 Composite Claim 2 | 99.94 | 418,155 |
| Grade 5 PT | 100.00 | 418,413 |
| Grade 5 Non-PT | 100.00 | 418,413 |
| Grade 6 Overall | 100.00 | 420,389 |
| Grade 6 Composite Claim 1 | 99.96 | 420,220 |
| Grade 6 Composite Claim 2 | 99.90 | 419,965 |
| Grade 6 PT | 100.00 | 420,389 |
| Grade 6 Non-PT | 100.00 | 420,389 |
| Grade 7 Overall | 100.00 | 424,312 |
| Grade 7 Composite Claim 1 | 99.93 | 424,011 |
| Grade 7 Composite Claim 2 | 99.81 | 423,516 |
| Grade 7 PT | 100.00 | 424,312 |
| Grade 7 Non-PT | 100.00 | 424,312 |
| Grade 8 Overall | 100.00 | 424,695 |
| Grade 8 Composite Claim 1 | 99.94 | 424,460 |
| Grade 8 Composite Claim 2 | 99.84 | 424,027 |
| Grade 8 PT | 100.00 | 424,695 |
| Grade 8 Non-PT | 100.00 | 424,695 |
| Grade 11 Overall | 100.00 | 435,289 |
| Grade 11 Composite Claim 1 | 99.93 | 434,980 |
| Grade 11 Composite Claim 2 | 99.77 | 434,295 |
| Grade 11 PT | 100.00 | 435,289 |
| Grade 11 Non-PT | 100.00 | 435,289 |

Table 8.B. Item Completion—Mathematics

|  |  |  |
| --- | --- | --- |
| **Score** | **% Completion** | **Total N of Students** |
| Grade 3 Overall | 100.00 | 408,569 |
| Grade 3 Composite Claim 1 | 99.99 | 408,538 |
| Grade 3 Composite Claim 2 | 100.00 | 408,558 |
| Grade 3 PT | 100.00 | 400,426 |
| Grade 3 Non-PT | 100.00 | 408,569 |
| Grade 4 Overall | 100.00 | 418,141 |
| Grade 4 Composite Claim 1 | 99.99 | 418,103 |
| Grade 4 Composite Claim 2 | 99.99 | 418,115 |
| Grade 4 PT | 100.00 | 409,812 |
| Grade 4 Non-PT | 100.00 | 418,141 |
| Grade 5 Overall | 100.00 | 422,512 |
| Grade 5 Composite Claim 1 | 99.99 | 422,481 |
| Grade 5 Composite Claim 2 | 100.00 | 422,496 |
| Grade 5 PT | 100.00 | 414,105 |
| Grade 5 Non-PT | 100.00 | 422,512 |
| Grade 6 Overall | 100.00 | 423,772 |
| Grade 6 Composite Claim 1 | 99.98 | 423,687 |
| Grade 6 Composite Claim 2 | 100.00 | 423,764 |
| Grade 6 PT | 100.00 | 415,324 |
| Grade 6 Non-PT | 100.00 | 423,772 |
| Grade 7 Overall | 100.00 | 426,911 |
| Grade 7 Composite Claim 1 | 99.97 | 426,779 |
| Grade 7 Composite Claim 2 | 100.00 | 426,903 |
| Grade 7 PT | 100.00 | 418,364 |
| Grade 7 Non-PT | 100.00 | 426,911 |
| Grade 8 Overall | 100.00 | 426,851 |
| Grade 8 Composite Claim 1 | 99.97 | 426,707 |
| Grade 8 Composite Claim 2 | 99.99 | 426,827 |
| Grade 8 PT | 100.00 | 418,313 |
| Grade 8 Non-PT | 100.00 | 426,851 |
| Grade 11 Overall | 100.00 | 434,703 |
| Grade 11 Composite Claim 1 | 99.98 | 434,602 |
| Grade 11 Composite Claim 2 | 99.98 | 434,609 |
| Grade 11 PT | 100.00 | 428,245 |
| Grade 11 Non-PT | 100.00 | 434,703 |

### 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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| Grade 3 Overall | 1,170 | 84 | 17 | 38 | 54 | 146 | 831 |
| Grade 3 Composite Claim 1 | 627 | 83 | 14 | 34 | 37 | 57 | 402 |
| Grade 3 Composite Claim 2 | 543 | 1 | 3 | 4 | 17 | 89 | 429 |
| Grade 4 Overall | 1,174 | 80 | 36 | 36 | 17 | 143 | 862 |
| Grade 4 Composite Claim 1 | 635 | 65 | 27 | 27 | 16 | 65 | 435 |
| Grade 4 Composite Claim 2 | 539 | 15 | 9 | 9 | 1 | 78 | 427 |
| Grade 5 Overall | 1,174 | 77 | 40 | 33 | 113 | 137 | 774 |
| Grade 5 Composite Claim 1 | 621 | 64 | 36 | 25 | 82 | 73 | 341 |
| Grade 5 Composite Claim 2 | 553 | 13 | 4 | 8 | 31 | 64 | 433 |
| Grade 6 Overall | 1,165 | 113 | 35 | 29 | 104 | 245 | 639 |
| Grade 6 Composite Claim 1 | 603 | 86 | 27 | 29 | 72 | 103 | 286 |
| Grade 6 Composite Claim 2 | 562 | 27 | 8 | N/A | 32 | 142 | 353 |
| Grade 7 Overall | 1,175 | 116 | 29 | 54 | 67 | 247 | 662 |
| Grade 7 Composite Claim 1 | 613 | 86 | 27 | 49 | 40 | 132 | 279 |
| Grade 7 Composite Claim 2 | 562 | 30 | 2 | 5 | 27 | 115 | 383 |
| Grade 8 Overall | 1,129 | 79 | 33 | 62 | 54 | 168 | 733 |
| Grade 8 Composite Claim 1 | 550 | 62 | 26 | 50 | 24 | 59 | 329 |
| Grade 8 Composite Claim 2 | 579 | 17 | 7 | 12 | 30 | 109 | 404 |
| Grade 11 Overall | 3,029 | 182 | 86 | 546 | 391 | 821 | 1,003 |
| Grade 11 Composite Claim 1 | 1,746 | 153 | 85 | 434 | 207 | 305 | 562 |
| Grade 11 Composite Claim 2 | 1,283 | 29 | 1 | 112 | 184 | 516 | 441 |

Table 8.C. Item Exposure Frequency—Mathematics

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| Grade 3 Overall | 1,358 | 15 | 1 | 35 | 98 | 379 | 830 |
| Grade 3 Composite Claim 1 | 759 | 1 | N/A | 27 | 72 | 197 | 462 |
| Grade 3 Composite Claim 2 | 599 | 14 | 1 | 8 | 26 | 182 | 368 |
| Grade 4 Overall | 1,425 | 42 | 1 | 8 | 58 | 578 | 738 |
| Grade 4 Composite Claim 1 | 812 | 24 | 1 | 5 | 24 | 357 | 401 |
| Grade 4 Composite Claim 2 | 613 | 18 | N/A | 3 | 34 | 221 | 337 |
| Grade 5 Overall | 1,438 | 36 | 6 | 13 | 116 | 439 | 828 |
| Grade 5 Composite Claim 1 | 829 | 12 | 6 | 5 | 92 | 265 | 449 |
| Grade 5 Composite Claim 2 | 609 | 24 | N/A | 8 | 24 | 174 | 379 |
| Grade 6 Overall | 1,304 | 8 | N/A | N/A | 123 | 460 | 713 |
| Grade 6 Composite Claim 1 | 815 | 2 | N/A | N/A | 107 | 290 | 416 |
| Grade 6 Composite Claim 2 | 489 | 6 | N/A | N/A | 16 | 170 | 297 |
| Grade 7 Overall | 1,278 | 7 | N/A | 15 | 138 | 556 | 562 |
| Grade 7 Composite Claim 1 | 796 | N/A | N/A | 5 | 116 | 375 | 300 |
| Grade 7 Composite Claim 2 | 482 | 7 | N/A | 10 | 22 | 181 | 262 |
| Grade 8 Overall | 1,047 | 7 | 1 | 2 | 139 | 326 | 572 |
| Grade 8 Composite Claim 1 | 690 | 2 | N/A | 1 | 103 | 235 | 349 |
| Grade 8 Composite Claim 2 | 357 | 5 | 1 | 1 | 36 | 91 | 223 |
| Grade 11 Overall | 2,502 | 12 | N/A | 382 | 787 | 783 | 538 |
| Grade 11 Composite Claim 1 | 1,797 | 5 | N/A | 269 | 718 | 529 | 276 |
| Grade 11 Composite Claim 2 | 705 | 7 | N/A | 113 | 69 | 254 | 262 |

**Note:** In table 8.C.3 through table 8.C.16, 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, 1.0]” indicates a value greater than 0.5 but less than or equal to 1.0.

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***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 | N/A | 1 | N/A | N/A |
| (3.5, 4.0] | 2 | N/A | 1 | 1 | N/A | N/A | N/A |
| (3.0, 3.5] | 2 | N/A | N/A | 1 | 1 | N/A | N/A |
| (2.5, 3.0] | 4 | N/A | N/A | 1 | N/A | 1 | 2 |
| (2.0, 2.5] | 10 | N/A | N/A | 2 | 1 | 3 | 4 |
| (1.5, 2.0] | 26 | 1 | 2 | 1 | 1 | 9 | 12 |
| (1.0, 1.5] | 57 | 4 | 4 | 6 | 2 | 9 | 32 |
| (0.5, 1.0] | 112 | 7 | 4 | 6 | 11 | 21 | 63 |
| (0, 0.5] | 151 | 10 | N/A | 6 | 5 | 13 | 117 |
| (−0.5, 0] | 188 | 14 | 1 | 3 | 7 | 15 | 148 |
| (−1.0, −0.5] | 184 | 14 | 1 | 4 | 2 | 17 | 146 |
| (−1.5, −1.0] | 201 | 19 | 4 | 3 | 7 | 23 | 145 |
| (−2.0, −1.5] | 168 | 13 | N/A | 4 | 13 | 22 | 116 |
| (−2.5, −2.0] | 55 | 1 | N/A | N/A | 3 | 11 | 40 |
| (−3.0, −2.5] | 8 | N/A | N/A | N/A | N/A | 2 | 6 |
| (−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—ELA, Grade Four

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***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 | N/A | 1 |
| (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 | N/A | N/A | N/A | N/A | 1 |
| (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 | N/A | N/A | 1 |
| (3.5, 4.0] | 5 | N/A | N/A | 1 | 1 | 2 | 1 |
| (3.0, 3.5] | 7 | 2 | N/A | N/A | 1 | 2 | 2 |
| (2.5, 3.0] | 18 | N/A | 1 | 3 | N/A | 8 | 6 |
| (2.0, 2.5] | 32 | 1 | 4 | 1 | N/A | 9 | 17 |
| (1.5, 2.0] | 65 | 4 | 2 | 4 | 4 | 23 | 28 |
| (1.0, 1.5] | 107 | 6 | 3 | 7 | 1 | 19 | 71 |
| (0.5, 1.0] | 122 | 11 | 2 | 2 | 2 | 7 | 98 |
| (0, 0.5] | 176 | 4 | 8 | 1 | 1 | 10 | 152 |
| (−0.5, 0] | 194 | 12 | 4 | 3 | 2 | 11 | 162 |
| (−1.0, −0.5] | 166 | 8 | 4 | 3 | 1 | 23 | 127 |
| (−1.5, −1.0] | 140 | 15 | 3 | 1 | 1 | 17 | 103 |
| (−2.0, −1.5] | 82 | 11 | 2 | 3 | 2 | 4 | 60 |
| (−2.5, −2.0] | 47 | 4 | 2 | 6 | 1 | 6 | 28 |
| (−3.0, −2.5] | 9 | 2 | 1 | 1 | N/A | 2 | 3 |
| (−3.5, −3.0] | 1 | N/A | N/A | N/A | N/A | N/A | 1 |
| < = −3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***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 | N/A | N/A | N/A | 1 |
| (5.0, 5.5] | 2 | 1 | N/A | N/A | N/A | N/A | 1 |
| (4.5, 5.0] | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| (4.0, 4.5] | 6 | 1 | 2 | N/A | N/A | N/A | 3 |
| (3.5, 4.0] | 5 | N/A | N/A | N/A | 2 | 1 | 2 |
| (3.0, 3.5] | 17 | 2 | N/A | 1 | 2 | 9 | 3 |
| (2.5, 3.0] | 29 | 2 | 5 | 2 | 2 | 9 | 9 |
| (2.0, 2.5] | 60 | 4 | 3 | 1 | 9 | 12 | 31 |
| (1.5, 2.0] | 76 | 5 | 5 | 2 | 9 | 8 | 47 |
| (1.0, 1.5] | 111 | 9 | 3 | 3 | 14 | 17 | 65 |
| (0.5, 1.0] | 160 | 7 | 3 | 8 | 11 | 8 | 123 |
| (0, 0.5] | 147 | 13 | 2 | 5 | 12 | 11 | 104 |
| (−0.5, 0] | 181 | 9 | 6 | 3 | 16 | 12 | 135 |
| (−1.0, −0.5] | 158 | 9 | 2 | 1 | 10 | 13 | 123 |
| (−1.5, −1.0] | 116 | 4 | 5 | N/A | 6 | 21 | 80 |
| (−2.0, −1.5] | 57 | 6 | 2 | 2 | 9 | 7 | 31 |
| (−2.5, −2.0] | 40 | 4 | 2 | 4 | 8 | 8 | 14 |
| (−3.0, −2.5] | 6 | 1 | N/A | 1 | 1 | 1 | 2 |
| (−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—ELA, Grade Six

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 3 | N/A | N/A | N/A | 3 | N/A | N/A |
| (5.5, 6.0] | 1 | N/A | N/A | N/A | 1 | 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] | 6 | 1 | 1 | 1 | 3 | N/A | N/A |
| (4.0, 4.5] | 11 | 1 | 1 | 1 | 7 | 1 | N/A |
| (3.5, 4.0] | 14 | N/A | 1 | 3 | 3 | 7 | N/A |
| (3.0, 3.5] | 25 | 1 | 1 | 1 | 3 | 17 | 2 |
| (2.5, 3.0] | 59 | 9 | 1 | 2 | 8 | 26 | 13 |
| (2.0, 2.5] | 82 | 14 | 3 | 2 | 9 | 21 | 33 |
| (1.5, 2.0] | 136 | 20 | 4 | 7 | 11 | 32 | 62 |
| (1.0, 1.5] | 145 | 4 | 4 | 1 | 11 | 27 | 98 |
| (0.5, 1.0] | 151 | 7 | 5 | 3 | 13 | 20 | 103 |
| (0, 0.5] | 133 | 8 | 3 | 4 | 9 | 18 | 91 |
| (−0.5, 0] | 154 | 7 | 3 | 2 | 7 | 27 | 108 |
| (−1.0, −0.5] | 134 | 15 | 3 | 1 | 8 | 22 | 85 |
| (−1.5, −1.0] | 69 | 9 | 1 | 1 | 5 | 19 | 34 |
| (−2.0, −1.5] | 24 | 8 | 2 | N/A | 2 | 5 | 7 |
| (−2.5, −2.0] | 15 | 8 | 2 | N/A | 1 | 2 | 2 |
| (−3.0, −2.5] | 2 | N/A | N/A | N/A | N/A | 1 | 1 |
| (−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—ELA, Grade Seven

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 3 | N/A | N/A | 1 | 1 | N/A | 1 |
| (5.5, 6.0] | 6 | N/A | 1 | N/A | 4 | 1 | N/A |
| (5.0, 5.5] | 6 | 1 | N/A | N/A | 4 | N/A | 1 |
| (4.5, 5.0] | 8 | 1 | 2 | N/A | 4 | N/A | 1 |
| (4.0, 4.5] | 13 | 1 | 1 | 2 | 7 | 1 | 1 |
| (3.5, 4.0] | 25 | 2 | 4 | 1 | 7 | 7 | 4 |
| (3.0, 3.5] | 37 | 1 | 3 | 4 | 3 | 19 | 7 |
| (2.5, 3.0] | 63 | 10 | 3 | 3 | 7 | 19 | 21 |
| (2.0, 2.5] | 114 | 20 | 4 | 9 | 6 | 26 | 49 |
| (1.5, 2.0] | 161 | 16 | 3 | 9 | 10 | 42 | 81 |
| (1.0, 1.5] | 167 | 6 | 1 | 4 | 5 | 30 | 121 |
| (0.5, 1.0] | 152 | 7 | 1 | 8 | 4 | 25 | 107 |
| (0, 0.5] | 135 | 7 | 1 | 4 | 2 | 29 | 92 |
| (−0.5, 0] | 133 | 14 | 2 | 2 | 2 | 23 | 90 |
| (−1.0, −0.5] | 73 | 13 | 3 | 1 | N/A | 14 | 42 |
| (−1.5, −1.0] | 57 | 11 | N/A | 3 | 1 | 9 | 33 |
| (−2.0, −1.5] | 17 | 4 | N/A | 3 | N/A | 2 | 8 |
| (−2.5, −2.0] | 4 | 1 | N/A | N/A | N/A | N/A | 3 |
| (−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—ELA, Grade Eight

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 4 | N/A | N/A | N/A | 3 | N/A | 1 |
| (5.5, 6.0] | 1 | N/A | N/A | N/A | 1 | N/A | N/A |
| (5.0, 5.5] | 3 | N/A | N/A | N/A | 2 | 1 | N/A |
| (4.5, 5.0] | 6 | N/A | N/A | N/A | 5 | N/A | 1 |
| (4.0, 4.5] | 11 | N/A | 3 | 2 | 4 | 1 | 1 |
| (3.5, 4.0] | 29 | 3 | 5 | 1 | 6 | 9 | 5 |
| (3.0, 3.5] | 61 | 3 | 3 | 9 | 5 | 30 | 11 |
| (2.5, 3.0] | 80 | 6 | 4 | 5 | 1 | 29 | 35 |
| (2.0, 2.5] | 107 | 13 | 4 | 4 | 2 | 23 | 61 |
| (1.5, 2.0] | 142 | 12 | N/A | 11 | 4 | 17 | 98 |
| (1.0, 1.5] | 152 | 6 | 4 | 4 | 6 | 23 | 109 |
| (0.5, 1.0] | 132 | 8 | 1 | 8 | 3 | 7 | 105 |
| (0, 0.5] | 116 | 6 | 4 | 5 | 2 | 7 | 92 |
| (−0.5, 0] | 158 | 6 | 4 | 2 | 5 | 14 | 127 |
| (−1.0, −0.5] | 73 | 9 | 1 | 4 | 3 | 1 | 55 |
| (−1.5, −1.0] | 34 | 5 | N/A | 3 | 2 | 3 | 21 |
| (−2.0, −1.5] | 15 | 2 | N/A | 3 | N/A | 3 | 7 |
| (−2.5, −2.0] | 3 | N/A | N/A | N/A | N/A | N/A | 3 |
| (−3.0, −2.5] | 1 | N/A | N/A | 1 | N/A | N/A | N/A |
| (−3.5, −3.0] | 1 | N/A | N/A | N/A | N/A | N/A | 1 |
| <= −3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 22 | 6 | 2 | 12 | N/A | N/A | 2 |
| (5.5, 6.0] | 17 | 1 | 3 | 13 | N/A | N/A | N/A |
| (5.0, 5.5] | 26 | 3 | 3 | 17 | N/A | 2 | 1 |
| (4.5, 5.0] | 45 | N/A | 3 | 34 | 2 | 1 | 5 |
| (4.0, 4.5] | 88 | 3 | 8 | 53 | 14 | 4 | 6 |
| (3.5, 4.0] | 133 | 2 | 9 | 46 | 34 | 30 | 12 |
| (3.0, 3.5] | 223 | 13 | 5 | 50 | 57 | 74 | 24 |
| (2.5, 3.0] | 309 | 21 | 9 | 60 | 60 | 101 | 58 |
| (2.0, 2.5] | 413 | 53 | 10 | 59 | 67 | 116 | 108 |
| (1.5, 2.0] | 442 | 19 | 14 | 52 | 47 | 155 | 155 |
| (1.0, 1.5] | 351 | 8 | 3 | 46 | 36 | 112 | 146 |
| (0.5, 1.0] | 337 | 10 | 6 | 37 | 32 | 89 | 163 |
| (0, 0.5] | 261 | 11 | 8 | 27 | 21 | 59 | 135 |
| (−0.5, 0] | 206 | 7 | 2 | 20 | 12 | 46 | 119 |
| (−1.0, −0.5] | 111 | 18 | 1 | 15 | 8 | 18 | 51 |
| (−1.5, −1.0] | 32 | 4 | N/A | 4 | N/A | 10 | 14 |
| (−2.0, −1.5] | 12 | 3 | N/A | 1 | 1 | 4 | 3 |
| (−2.5, −2.0] | 1 | N/A | N/A | N/A | N/A | N/A | 1 |
| (−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—Mathematics, Grade Three

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***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 | N/A | 1 | 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] | 1 | N/A | N/A | N/A | 1 | N/A | N/A |
| (3.0, 3.5] | 4 | N/A | N/A | 1 | 3 | N/A | N/A |
| (2.5, 3.0] | 4 | N/A | N/A | N/A | 3 | 1 | N/A |
| (2.0, 2.5] | 7 | N/A | N/A | N/A | 3 | 3 | 1 |
| (1.5, 2.0] | 12 | N/A | N/A | N/A | 2 | 10 | N/A |
| (1.0, 1.5] | 27 | N/A | N/A | N/A | 1 | 18 | 8 |
| (0.5, 1.0] | 92 | 1 | N/A | N/A | 3 | 45 | 43 |
| (0, 0.5] | 173 | 3 | N/A | 4 | 9 | 71 | 86 |
| (−0.5, 0] | 226 | 2 | N/A | 2 | 11 | 80 | 131 |
| (−1.0, −0.5] | 217 | 4 | N/A | N/A | 7 | 54 | 152 |
| (−1.5, −1.0] | 195 | N/A | N/A | N/A | 4 | 18 | 173 |
| (−2.0, −1.5] | 210 | 5 | 1 | 26 | 21 | 49 | 108 |
| (−2.5, −2.0] | 115 | N/A | N/A | 1 | 21 | 5 | 88 |
| (−3.0, −2.5] | 52 | N/A | N/A | N/A | 6 | 15 | 31 |
| (−3.5, −3.0] | 17 | N/A | N/A | N/A | 2 | 7 | 8 |
| <= −3.5 | 4 | N/A | N/A | N/A | N/A | 3 | 1 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***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 | 1 | 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 | N/A | 1 | 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 | N/A | N/A | 2 | N/A | 1 |
| (3.5, 4.0] | 1 | N/A | N/A | N/A | 1 | N/A | N/A |
| (3.0, 3.5] | 4 | N/A | N/A | N/A | N/A | 4 | N/A |
| (2.5, 3.0] | 6 | N/A | N/A | N/A | 2 | 4 | N/A |
| (2.0, 2.5] | 23 | N/A | N/A | N/A | N/A | 15 | 8 |
| (1.5, 2.0] | 45 | N/A | N/A | N/A | N/A | 33 | 12 |
| (1.0, 1.5] | 104 | 2 | N/A | N/A | 7 | 53 | 42 |
| (0.5, 1.0] | 202 | 3 | N/A | N/A | 25 | 92 | 82 |
| (0, 0.5] | 259 | 4 | N/A | 2 | 2 | 128 | 123 |
| (−0.5, 0] | 262 | 2 | N/A | 2 | 10 | 118 | 130 |
| (−1.0, −0.5] | 206 | 6 | N/A | N/A | 3 | 68 | 129 |
| (−1.5, −1.0] | 152 | 4 | N/A | N/A | 3 | 36 | 109 |
| (−2.0, −1.5] | 88 | 3 | N/A | N/A | 1 | 17 | 67 |
| (−2.5, −2.0] | 35 | 2 | N/A | 1 | 1 | 9 | 22 |
| (−3.0, −2.5] | 24 | 11 | N/A | 1 | 1 | 1 | 10 |
| (−3.5, −3.0] | 9 | 5 | 1 | N/A | N/A | N/A | 3 |
| <= −3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***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 | 1 | N/A | N/A | N/A |
| (5.5, 6.0] | 1 | N/A | N/A | 1 | N/A | N/A | N/A |
| (5.0, 5.5] | 2 | N/A | N/A | 1 | 1 | N/A | N/A |
| (4.5, 5.0] | 2 | N/A | N/A | N/A | 1 | 1 | N/A |
| (4.0, 4.5] | 3 | 1 | N/A | N/A | 2 | N/A | N/A |
| (3.5, 4.0] | 4 | N/A | N/A | N/A | 2 | N/A | 2 |
| (3.0, 3.5] | 5 | N/A | N/A | N/A | 2 | 2 | 1 |
| (2.5, 3.0] | 19 | N/A | N/A | N/A | 2 | 10 | 7 |
| (2.0, 2.5] | 56 | N/A | N/A | N/A | 9 | 26 | 21 |
| (1.5, 2.0] | 126 | 3 | N/A | N/A | 16 | 70 | 37 |
| (1.0, 1.5] | 176 | 5 | N/A | N/A | 27 | 68 | 76 |
| (0.5, 1.0] | 263 | 9 | N/A | 1 | 32 | 79 | 142 |
| (0, 0.5] | 307 | 4 | N/A | 5 | 21 | 142 | 135 |
| (−0.5, 0] | 191 | 2 | N/A | N/A | N/A | 34 | 155 |
| (−1.0, −0.5] | 128 | N/A | N/A | N/A | N/A | 7 | 121 |
| (−1.5, −1.0] | 66 | N/A | N/A | N/A | N/A | N/A | 66 |
| (−2.0, −1.5] | 34 | 2 | 1 | N/A | N/A | N/A | 31 |
| (−2.5, −2.0] | 32 | 2 | N/A | 3 | 1 | N/A | 26 |
| (−3.0, −2.5] | 15 | 4 | 3 | 1 | N/A | N/A | 7 |
| (−3.5, −3.0] | 7 | 4 | 2 | N/A | N/A | N/A | 1 |
| <= −3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-*v*alue** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 10 | N/A | N/A | N/A | 10 | N/A | N/A |
| (5.5, 6.0] | 4 | N/A | N/A | N/A | 4 | N/A | N/A |
| (5.0, 5.5] | 4 | N/A | N/A | N/A | 3 | 1 | N/A |
| (4.5, 5.0] | 5 | N/A | N/A | N/A | 3 | 2 | N/A |
| (4.0, 4.5] | 12 | N/A | N/A | N/A | 8 | 4 | N/A |
| (3.5, 4.0] | 18 | N/A | N/A | N/A | 4 | 14 | N/A |
| (3.0, 3.5] | 32 | N/A | N/A | N/A | 4 | 25 | 3 |
| (2.5, 3.0] | 50 | N/A | N/A | N/A | 13 | 28 | 9 |
| (2.0, 2.5] | 118 | 2 | N/A | N/A | 14 | 74 | 28 |
| (1.5, 2.0] | 184 | N/A | N/A | N/A | 21 | 97 | 66 |
| (1.0, 1.5] | 218 | 3 | N/A | N/A | 25 | 96 | 94 |
| (0.5, 1.0] | 211 | 2 | N/A | N/A | 12 | 72 | 125 |
| (0, 0.5] | 140 | N/A | N/A | N/A | N/A | 12 | 128 |
| (−0.5, 0] | 102 | N/A | N/A | N/A | N/A | 15 | 87 |
| (−1.0, −0.5] | 93 | N/A | N/A | N/A | N/A | 7 | 86 |
| (−1.5, −1.0] | 40 | N/A | N/A | N/A | 1 | 8 | 31 |
| (−2.0, −1.5] | 40 | 1 | N/A | N/A | 1 | 5 | 33 |
| (−2.5, −2.0] | 17 | N/A | N/A | N/A | N/A | N/A | 17 |
| (−3.0, −2.5] | 4 | N/A | N/A | N/A | N/A | N/A | 4 |
| (−3.5, −3.0] | 1 | N/A | N/A | N/A | N/A | N/A | 1 |
| <= −3.5 | 1 | N/A | N/A | N/A | N/A | N/A | 1 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **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 | 7 | 1 | N/A | N/A |
| (5.5, 6.0] | 3 | N/A | N/A | 2 | N/A | 1 | N/A |
| (5.0, 5.5] | 9 | N/A | N/A | 5 | 1 | 3 | N/A |
| (4.5, 5.0] | 9 | N/A | N/A | 1 | 2 | 5 | 1 |
| (4.0, 4.5] | 14 | N/A | N/A | N/A | 4 | 9 | 1 |
| (3.5, 4.0] | 32 | N/A | N/A | N/A | 8 | 22 | 2 |
| (3.0, 3.5] | 63 | N/A | N/A | N/A | 7 | 51 | 5 |
| (2.5, 3.0] | 140 | N/A | N/A | N/A | 41 | 76 | 23 |
| (2.0, 2.5] | 202 | 2 | N/A | N/A | 47 | 116 | 37 |
| (1.5, 2.0] | 218 | 1 | N/A | N/A | 18 | 138 | 61 |
| (1.0, 1.5] | 200 | N/A | N/A | N/A | 9 | 105 | 86 |
| (0.5, 1.0] | 126 | 3 | N/A | N/A | N/A | 28 | 95 |
| (0, 0.5] | 101 | N/A | N/A | N/A | N/A | 2 | 99 |
| (−0.5, 0] | 60 | N/A | N/A | N/A | N/A | N/A | 60 |
| (−1.0, −0.5] | 55 | N/A | N/A | N/A | N/A | N/A | 55 |
| (−1.5, −1.0] | 25 | N/A | N/A | N/A | N/A | N/A | 25 |
| (−2.0, −1.5] | 12 | 1 | 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] | 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—Mathematics, Grade Eight

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 11 | N/A | N/A | 1 | 9 | 1 | N/A |
| (5.5, 6.0] | 11 | N/A | N/A | N/A | 8 | 3 | N/A |
| (5.0, 5.5] | 20 | N/A | N/A | N/A | 16 | 3 | 1 |
| (4.5, 5.0] | 18 | N/A | N/A | N/A | 12 | 6 | N/A |
| (4.0, 4.5] | 34 | N/A | N/A | N/A | 14 | 17 | 3 |
| (3.5, 4.0] | 57 | N/A | N/A | N/A | 15 | 29 | 13 |
| (3.0, 3.5] | 87 | N/A | N/A | N/A | 17 | 43 | 27 |
| (2.5, 3.0] | 130 | 2 | N/A | N/A | 24 | 62 | 42 |
| (2.0, 2.5] | 152 | 1 | N/A | N/A | 14 | 77 | 60 |
| (1.5, 2.0] | 125 | 1 | N/A | 1 | 8 | 40 | 75 |
| (1.0, 1.5] | 113 | 1 | N/A | N/A | 2 | 28 | 82 |
| (0.5, 1.0] | 87 | N/A | N/A | N/A | N/A | 10 | 77 |
| (0, 0.5] | 75 | N/A | N/A | N/A | N/A | 2 | 73 |
| (−0.5, 0] | 47 | 1 | N/A | N/A | N/A | N/A | 46 |
| (−1.0, −0.5] | 44 | N/A | N/A | N/A | N/A | 4 | 40 |
| (−1.5, −1.0] | 22 | N/A | N/A | N/A | N/A | 1 | 21 |
| (−2.0, −1.5] | 14 | 1 | 1 | N/A | N/A | N/A | 12 |
| (−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—Mathematics, Grade Eleven

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***b*-value** | **Number of Items** | **Frequency = 0** | **1 ≤ Frequency < 100** | **100 ≤ Frequency < 500** | **500 ≤ Frequency < 1000** | **1000 ≤ Frequency < 3000** | **Frequency ≥ 3000** |
| > 6.0 | 27 | N/A | N/A | 23 | 2 | 1 | 1 |
| (5.5, 6.0] | 30 | N/A | N/A | 28 | 2 | N/A | N/A |
| (5.0, 5.5] | 46 | N/A | N/A | 38 | 8 | N/A | N/A |
| (4.5, 5.0] | 98 | N/A | N/A | 79 | 17 | 1 | 1 |
| (4.0, 4.5] | 122 | N/A | N/A | 66 | 22 | 21 | 13 |
| (3.5, 4.0] | 208 | 1 | N/A | 33 | 78 | 70 | 26 |
| (3.0, 3.5] | 259 | N/A | N/A | 17 | 124 | 90 | 28 |
| (2.5, 3.0] | 407 | 4 | N/A | 53 | 207 | 112 | 31 |
| (2.0, 2.5] | 357 | 5 | N/A | 25 | 152 | 129 | 46 |
| (1.5, 2.0] | 295 | 1 | N/A | 13 | 90 | 134 | 57 |
| (1.0, 1.5] | 222 | 1 | N/A | 5 | 45 | 96 | 75 |
| (0.5, 1.0] | 149 | N/A | N/A | 1 | 31 | 41 | 76 |
| (0, 0.5] | 123 | N/A | N/A | N/A | 7 | 44 | 72 |
| (−0.5, 0] | 64 | N/A | N/A | 1 | 2 | 20 | 41 |
| (−1.0, −0.5] | 46 | N/A | N/A | N/A | N/A | 9 | 37 |
| (−1.5, −1.0] | 25 | N/A | N/A | N/A | N/A | 12 | 13 |
| (−2.0, −1.5] | 11 | N/A | N/A | N/A | N/A | 2 | 9 |
| (−2.5, −2.0] | 8 | N/A | N/A | N/A | N/A | 1 | 7 |
| (−3.0, −2.5] | 1 | N/A | N/A | N/A | N/A | N/A | 1 |
| (−3.5, −3.0] | 3 | N/A | N/A | N/A | N/A | N/A | 3 |
| <= −3.5 | 1 | N/A | N/A | N/A | N/A | N/A | 1 |

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

Item response theory (IRT) parameter estimates used in the 2023–24 administration of the Smarter Balanced Summative Assessments were derived from the 2013–14 field tests as well as the operational assessments from the 2014–15 through 2022–23 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 level and a content area.

Table 8.D. IRT *a*-values—ELA, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **Standard Deviation (SD)** | **Minimum** | **Maximum** |
| Composite Claim 1 | 627 | 0.63 | 0.23 | 0.17 | 1.53 |
| Composite Claim 2 | 543 | 0.64 | 0.22 | 0.18 | 1.29 |
| **All Items** | **1,170** | **0.63** | **0.22** | **0.17** | **1.53** |

Table 8.D. IRT *a*-values—ELA, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 635 | 0.59 | 0.21 | 0.15 | 1.41 |
| Composite Claim 2 | 539 | 0.57 | 0.21 | 0.15 | 1.29 |
| **All Items** | **1,174** | **0.58** | **0.21** | **0.15** | **1.41** |

Table 8.D. IRT *a*-values—ELA, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 621 | 0.58 | 0.21 | 0.09 | 1.38 |
| Composite Claim 2 | 553 | 0.60 | 0.20 | 0.14 | 1.25 |
| **All Items** | **1,174** | **0.59** | **0.21** | **0.09** | **1.38** |

Table 8.D. IRT *a*-values—ELA, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 603 | 0.58 | 0.21 | 0.17 | 1.24 |
| Composite Claim 2 | 562 | 0.56 | 0.20 | 0.11 | 1.29 |
| **All Items** | **1,165** | **0.57** | **0.20** | **0.11** | **1.29** |

Table 8.D. IRT *a*-values—ELA, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 613 | 0.55 | 0.19 | 0.11 | 1.30 |
| Composite Claim 2 | 562 | 0.54 | 0.21 | 0.10 | 1.65 |
| **All Items** | **1,175** | **0.55** | **0.20** | **0.10** | **1.65** |

Table 8.D. IRT *a*-values—ELA, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 550 | 0.54 | 0.20 | 0.10 | 1.12 |
| Composite Claim 2 | 579 | 0.52 | 0.19 | 0.12 | 1.19 |
| **All Items** | **1,129** | **0.53** | **0.19** | **0.10** | **1.19** |

Table 8.D. IRT *a*-values—ELA, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 1,746 | 0.50 | 0.18 | 0.10 | 1.12 |
| Composite Claim 2 | 1,283 | 0.47 | 0.16 | 0.12 | 1.19 |
| **All Items** | **3,029** | **0.49** | **0.17** | **0.10** | **1.19** |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 759 | 0.83 | 0.29 | 0.16 | 1.59 |
| Composite Claim 2 | 599 | 0.80 | 0.30 | 0.13 | 1.53 |
| **All Items** | **1,358** | **0.82** | **0.29** | **0.13** | **1.59** |

Table 8.D. IRT *a*-values—Mathematics, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 812 | 0.85 | 0.28 | 0.17 | 1.64 |
| Composite Claim 2 | 613 | 0.76 | 0.29 | 0.13 | 1.63 |
| **All Items** | **1,425** | **0.81** | **0.29** | **0.13** | **1.64** |

Table 8.D. IRT *a*-values—Mathematics, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 829 | 0.76 | 0.29 | 0.14 | 1.62 |
| Composite Claim 2 | 609 | 0.73 | 0.29 | 0.16 | 1.53 |
| **All Items** | **1,438** | **0.74** | **0.29** | **0.14** | **1.62** |

Table 8.D. IRT *a*-values—Mathematics, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 815 | 0.68 | 0.26 | 0.09 | 1.38 |
| Composite Claim 2 | 489 | 0.67 | 0.27 | 0.10 | 1.51 |
| **All Items** | **1,304** | **0.68** | **0.26** | **0.09** | **1.51** |

Table 8.D. IRT *a*-values—Mathematics, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 796 | 0.72 | 0.28 | 0.08 | 1.44 |
| Composite Claim 2 | 482 | 0.67 | 0.29 | 0.11 | 1.68 |
| **All Items** | **1,278** | **0.70** | **0.29** | **0.08** | **1.68** |

Table 8.D. IRT *a*-values—Mathematics, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 690 | 0.57 | 0.25 | 0.09 | 1.33 |
| Composite Claim 2 | 357 | 0.56 | 0.27 | 0.13 | 1.36 |
| **All Items** | **1,047** | **0.57** | **0.26** | **0.09** | **1.36** |

Table 8.D. IRT *a*-values—Mathematics, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 1,797 | 0.59 | 0.27 | 0.09 | 1.57 |
| Composite Claim 2 | 705 | 0.51 | 0.25 | 0.08 | 1.40 |
| **All Items** | **2,502** | **0.57** | **0.26** | **0.08** | **1.57** |

Table 8.D. IRT *b*-values—ELA, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 627 | −0.45 | 1.14 | −2.92 | 4.69 |
| Composite Claim 2 | 543 | −0.54 | 1.04 | −2.90 | 4.12 |
| **All Items** | **1,170** | **−0.49** | **1.10** | **−2.92** | **4.69** |

Table 8.D. IRT *b*-values—ELA, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 635 | 0.04 | 1.24 | −2.82 | 6.23 |
| Composite Claim 2 | 539 | −0.17 | 1.26 | −3.25 | 5.01 |
| **All Items** | **1,174** | **−0.06** | **1.25** | **−3.25** | **6.23** |

Table 8.D. IRT *b*-values—ELA, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 621 | 0.40 | 1.40 | −2.82 | 7.52 |
| Composite Claim 2 | 553 | 0.00 | 1.30 | −3.25 | 3.83 |
| **All Items** | **1,174** | **0.21** | **1.36** | **−3.25** | **7.52** |

Table 8.D. IRT *b*-values—ELA, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 603 | 0.75 | 1.40 | −2.82 | 7.38 |
| Composite Claim 2 | 562 | 0.69 | 1.40 | −3.25 | 6.25 |
| **All Items** | **1,165** | **0.72** | **1.40** | **−3.25** | **7.38** |

Table 8.D. IRT *b*-values—ELA, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 613 | 1.10 | 1.37 | −1.84 | 6.63 |
| Composite Claim 2 | 562 | 1.04 | 1.47 | −2.72 | 6.88 |
| **All Items** | **1,175** | **1.07** | **1.42** | **−2.72** | **6.88** |

Table 8.D. IRT *b*-values—ELA, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 550 | 1.09 | 1.35 | −2.12 | 6.38 |
| Composite Claim 2 | 579 | 1.19 | 1.53 | −3.01 | 8.41 |
| **All Items** | **1,129** | **1.14** | **1.44** | **−3.01** | **8.41** |

Table 8.D. IRT *b*-values—ELA, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 1,746 | 1.68 | 1.48 | −2.09 | 9.10 |
| Composite Claim 2 | 1,283 | 1.87 | 1.48 | −1.98 | 9.15 |
| **All Items** | **3,029** | **1.76** | **1.49** | **−2.09** | **9.15** |

Table 8.D. IRT *b*-values—Mathematics, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 759 | −1.16 | 1.09 | −4.34 | 4.16 |
| Composite Claim 2 | 599 | −0.32 | 0.98 | −3.54 | 5.12 |
| **All Items** | **1,358** | **−0.79** | **1.12** | **−4.34** | **5.12** |

Table 8.D. IRT *b*-values—Mathematics, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 812 | −0.33 | 1.13 | −3.38 | 4.48 |
| Composite Claim 2 | 613 | 0.13 | 1.08 | −2.68 | 7.87 |
| **All Items** | **1,425** | **−0.13** | **1.13** | **−3.38** | **7.87** |

Table 8.D. IRT *b*-values—Mathematics, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 829 | 0.14 | 1.14 | −3.38 | 6.20 |
| Composite Claim 2 | 609 | 0.71 | 1.16 | −2.68 | 5.98 |
| **All Items** | **1,438** | **0.38** | **1.18** | **−3.38** | **6.20** |

Table 8.D. IRT *b*-values—Mathematics, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 815 | 0.73 | 1.41 | −3.93 | 9.16 |
| Composite Claim 2 | 489 | 1.39 | 1.45 | −2.16 | 7.52 |
| **All Items** | **1,304** | **0.98** | **1.46** | **−3.93** | **9.16** |

Table 8.D. IRT *b*-values—Mathematics, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 796 | 1.53 | 1.33 | −2.55 | 10.50 |
| Composite Claim 2 | 482 | 1.68 | 1.42 | −1.65 | 8.99 |
| **All Items** | **1,278** | **1.59** | **1.36** | **−2.55** | **10.50** |

Table 8.D. IRT *b*-values—Mathematics, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 690 | 1.80 | 1.64 | −1.87 | 7.75 |
| Composite Claim 2 | 357 | 2.18 | 1.56 | −1.73 | 9.02 |
| **All Items** | **1,047** | **1.93** | **1.62** | **−1.87** | **9.02** |

Table 8.D. IRT *b*-values—Mathematics, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Mean** | **SD** | **Minimum** | **Maximum** |
| Composite Claim 1 | 1,797 | 2.24 | 1.53 | −4.43 | 8.72 |
| Composite Claim 2 | 705 | 2.70 | 1.50 | −1.10 | 7.19 |
| **All Items** | **2,502** | **2.37** | **1.53** | **−4.43** | **8.72** |

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | 5 | 5 | 6 | 7 | 6 | 6 |
| 0.2–< 0.4 | 147 | 154 | 161 | 163 | 164 | 163 |
| 0.4–< 0.6 | **\*284** | **\*305** | **\*309** | **\*313** | **\*315** | **\*307** |
| 0.6–< 0.8 | 281 | 293 | 301 | 304 | 301 | 297 |
| 0.8–< 1.0 | 160 | 160 | 160 | 161 | 161 | 159 |
| 1.0–< 1.2 | 50 | 52 | 53 | 53 | 53 | 53 |
| 1.2–< 1.4 | 5 | 5 | 5 | 5 | 5 | 5 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Four, Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | 14 | 15 | 16 | 16 | 16 | 16 |
| 0.2–< 0.4 | 189 | 195 | 201 | 203 | 202 | 197 |
| 0.4–< 0.6 | **\*302** | **\*317** | **\*329** | **\*338** | **\*333** | **\*328** |
| 0.6–< 0.8 | 271 | 284 | 297 | 300 | 299 | 282 |
| 0.8–< 1.0 | 100 | 103 | 108 | 110 | 107 | 101 |
| 1.0–< 1.2 | 30 | 30 | 31 | 31 | 26 | 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Five, Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 9 | 10 | 10 | 10 | 10 | 10 |
| 0.2–< 0.4 | 164 | 170 | 173 | 172 | 165 | 161 |
| 0.4–< 0.6 | **\*342** | **\*361** | **\*369** | **\*375** | **\*366** | **\*359** |
| 0.6–< 0.8 | 259 | 263 | 270 | 264 | 244 | 238 |
| 0.8–< 1.0 | 128 | 131 | 131 | 127 | 115 | 112 |
| 1.0–< 1.2 | 37 | 40 | 40 | 36 | 24 | 23 |
| 1.2–< 1.4 | 5 | 5 | 5 | 5 | 5 | 5 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Six, Non-‍PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 9 | 10 | 9 | 9 | 9 | 9 |
| 0.2–< 0.4 | 220 | 231 | 238 | 241 | 238 | 234 |
| 0.4–< 0.6 | **\*345** | **\*357** | **\*368** | **\*371** | **\*368** | **\*359** |
| 0.6–< 0.8 | 237 | 251 | 257 | 258 | 245 | 233 |
| 0.8–< 1.0 | 82 | 87 | 88 | 87 | 80 | 76 |
| 1.0–< 1.2 | 10 | 11 | 11 | 9 | 8 | 7 |
| 1.2–< 1.4 | 2 | 2 | 2 | 2 | 2 | 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Seven, Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 20 | 20 | 20 | 20 | 20 | 20 | 19 |
| 0.2–< 0.4 | 238 | 249 | 258 | 261 | 260 | 256 | 249 |
| 0.4–< 0.6 | **\*329** | **\*353** | **\*365** | **\*373** | **\*369** | **\*358** | **\*353** |
| 0.6–< 0.8 | 233 | 244 | 251 | 250 | 244 | 238 | 232 |
| 0.8–< 1.0 | 53 | 55 | 58 | 58 | 53 | 51 | 49 |
| 1.0–< 1.2 | 7 | 7 | 7 | 7 | 6 | 5 | 5 |
| 1.2–< 1.4 | N/A | 1 | 1 | 1 | 1 | 1 | 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Eight, Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 24 | 24 | 25 | 25 | 25 | 25 | 25 |
| 0.2–< 0.4 | 255 | 265 | 275 | 277 | 275 | 265 | 259 |
| 0.4–< 0.6 | **\*341** | **\*362** | **\*378** | **\*382** | **\*379** | **\*361** | **\*358** |
| 0.6–< 0.8 | 191 | 200 | 203 | 206 | 203 | 194 | 193 |
| 0.8–< 1.0 | 53 | 56 | 58 | 57 | 55 | 52 | 50 |
| 1.0–< 1.2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Eleven, Non-‍PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** | **2900–2999** |
| 0–< 0.2 | 83 | 87 | 89 | 90 | 91 | 91 | 75 |
| 0.2–< 0.4 | **\*814** | **\*846** | **\*857** | **\*865** | **\*859** | **\*841** | 687 |
| 0.4–< 0.6 | 1,117 | 1,149 | 1,177 | 1,179 | 1,168 | 1,147 | **\*961** |
| 0.6–< 0.8 | 486 | 507 | 520 | 523 | 511 | 487 | 379 |
| 0.8–< 1.0 | 80 | 80 | 81 | 80 | 80 | 78 | 61 |
| 1.0–< 1.2 | 12 | 12 | 12 | 12 | 12 | 11 | 9 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Three, Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| 0–< 0.2 | 11 | 11 | 11 | 11 | 11 | 11 |
| 0.2–< 0.4 | 95 | 95 | 95 | 95 | 95 | 95 |
| 0.4–< 0.6 | 195 | 199 | 199 | 199 | 199 | 199 |
| 0.6–< 0.8 | **\*284** | **\*289** | **\*289** | **\*289** | **\*289** | **\*289** |
| 0.8–< 1.0 | 275 | 278 | 278 | 278 | 278 | 278 |
| 1.0–< 1.2 | 227 | 227 | 227 | 228 | 228 | 227 |
| 1.2–< 1.4 | 121 | 123 | 123 | 123 | 123 | 123 |
| 1.4–< 1.6 | 10 | 11 | 11 | 11 | 11 | 11 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Four, Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0.2–< 0.4 | 97 | 97 | 97 | 97 | 97 | 95 |
| 0.4–< 0.6 | 237 | 237 | 237 | 237 | 237 | 235 |
| 0.6–< 0.8 | **\*312** | **\*312** | **\*312** | **\*311** | **\*308** | **\*308** |
| 0.8–< 1.0 | 307 | 307 | 306 | 306 | 306 | 299 |
| 1.0–< 1.2 | 191 | 191 | 191 | 190 | 191 | 183 |
| 1.2–< 1.4 | 98 | 98 | 98 | 97 | 97 | 94 |
| 1.4–< 1.6 | 31 | 31 | 31 | 31 | 31 | 30 |
| 1.6–< 1.8 | 7 | 7 | 7 | 7 | 7 | 6 |
| 1.8–< 2.0 | N/A | N/A | N/A | N/A | N/A | N/A |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 18 | 18 | 18 | 18 | 18 | 18 |
| 0.2–< 0.4 | 142 | 142 | 142 | 142 | 142 | 142 |
| 0.4–< 0.6 | 288 | 288 | 288 | 286 | 285 | 283 |
| 0.6–< 0.8 | **\*324** | **\*324** | **\*324** | **\*321** | **\*313** | **\*309** |
| 0.8–< 1.0 | 232 | 232 | 232 | 232 | 228 | 226 |
| 1.0–< 1.2 | 146 | 146 | 146 | 146 | 146 | 145 |
| 1.2–< 1.4 | 85 | 85 | 85 | 85 | 84 | 83 |
| 1.4–< 1.6 | 21 | 21 | 21 | 21 | 21 | 21 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Six, Non-PT Items

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** |
| 0–< 0.2 | 33 | 33 | 33 | 33 | 33 | 33 |
| 0.2–< 0.4 | 181 | 181 | 181 | 181 | 181 | 181 |
| 0.4–< 0.6 | 269 | 269 | 269 | 269 | 263 | 263 |
| 0.6–< 0.8 | **\*306** | **\*306** | **\*306** | **\*306** | **\*302** | **\*301** |
| 0.8–< 1.0 | 264 | 264 | 264 | 264 | 262 | 262 |
| 1.0–< 1.2 | 127 | 127 | 127 | 127 | 126 | 126 |
| 1.2–< 1.4 | 21 | 21 | 21 | 21 | 21 | 21 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Seven, Non-PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| 0.2–< 0.4 | 202 | 202 | 202 | 202 | 202 | 202 | 202 |
| 0.4–< 0.6 | 235 | 235 | 235 | 235 | 235 | 234 | 234 |
| 0.6–< 0.8 | **\*281** | **\*281** | **\*281** | **\*281** | **\*280** | **\*276** | **\*276** |
| 0.8–< 1.0 | 252 | 252 | 252 | 252 | 252 | 249 | 249 |
| 1.0–< 1.2 | 175 | 175 | 175 | 175 | 175 | 175 | 175 |
| 1.2–< 1.4 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| 1.4–< 1.6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Eight, Non-PT Items

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **IRT *a*-value** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** | **2700–2799** | **2800–2899** |
| 0–< 0.2 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| 0.2–< 0.4 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| 0.4–< 0.6 | **\*286** | **\*286** | **\*286** | **\*286** | **\*285** | **\*283** | **\*283** |
| 0.6–< 0.8 | 219 | 219 | 219 | 219 | 219 | 214 | 213 |
| 0.8–< 1.0 | 127 | 127 | 127 | 127 | 127 | 124 | 123 |
| 1.0–< 1.2 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| 1.2–< 1.4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Eleven, 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 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 167 |
| 0.2–< 0.4 | 575 | 575 | 575 | 575 | 575 | 575 | 575 | 557 |
| 0.4–< 0.6 | **\*624** | **\*624** | **\*624** | **\*624** | **\*624** | **\*624** | **\*624** | **\*612** |
| 0.6–< 0.8 | 549 | 549 | 549 | 549 | 549 | 549 | 549 | 539 |
| 0.8–< 1.0 | 366 | 366 | 366 | 366 | 366 | 366 | 366 | 360 |
| 1.0–< 1.2 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 113 |
| 1.2–< 1.4 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 1.4–< 1.6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 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.D.43 through table 8.D.56, the mode of each distribution is **highlighted** in **bold** text and indicated using an asterisk (\*).

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Three, 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 | 8 | 8 | 8 | 8 | 7 | 7 |
| −2.5–< −2.0 | 53 | 54 | 54 | 54 | 54 | 50 |
| −2.0–< −1.5 | 151 | 152 | 152 | 152 | 151 | 146 |
| −1.5–< −1.0 | **\*161** | **\*162** | **\*163** | **\*166** | 163 | 161 |
| −1.0–< −0.5 | 145 | 151 | 156 | 157 | 157 | 154 |
| −0.5–< 0 | 156 | 159 | **\*163** | 163 | **\*164** | **\*164** |
| 0–< 0.5 | 109 | 117 | 120 | 123 | 123 | 123 |
| 0.5–< 1.0 | 84 | 94 | 96 | 96 | 96 | 96 |
| 1.0–< 1.5 | 37 | 43 | 46 | 48 | 51 | 50 |
| 1.5–< 2.0 | 16 | 20 | 20 | 21 | 21 | 21 |
| 2.0–< 2.5 | 8 | 9 | 10 | 10 | 10 | 10 |
| 2.5–< 3.0 | 3 | 3 | 4 | 4 | 4 | 4 |
| 3.0–< 3.5 | N/A | N/A | 2 | 2 | 2 | 2 |
| >= 3.5 | 2 | 3 | 2 | 3 | 3 | 3 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Four, 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 | 6 | 6 | 6 | 4 | 4 |
| −2.5–< −2.0 | 40 | 43 | 43 | 43 | 34 | 28 |
| −2.0–< −1.5 | 67 | 67 | 68 | 68 | 67 | 55 |
| −1.5–< −1.0 | 112 | 115 | 116 | 117 | 115 | 106 |
| −1.0–< −0.5 | 136 | 140 | 142 | 142 | 141 | 137 |
| −0.5–< 0 | **\*152** | **\*153** | **\*158** | **\*160** | **\*160** | **\*157** |
| 0–< 0.5 | 141 | 145 | 149 | 154 | 156 | 151 |
| 0.5–< 1.0 | 83 | 87 | 93 | 97 | 95 | 95 |
| 1.0–< 1.5 | 76 | 82 | 92 | 93 | 93 | 93 |
| 1.5–< 2.0 | 47 | 51 | 58 | 60 | 60 | 60 |
| 2.0–< 2.5 | 24 | 29 | 30 | 30 | 30 | 31 |
| 2.5–< 3.0 | 12 | 16 | 17 | 18 | 18 | 18 |
| 3.0–< 3.5 | 4 | 5 | 5 | 5 | 5 | 5 |
| >= 3.5 | 6 | 6 | 7 | 7 | 7 | 7 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Five, 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 | 5 | 5 | 5 | 3 | N/A | N/A |
| −2.5–< −2.0 | 36 | 36 | 35 | 26 | 12 | 12 |
| −2.0–< −1.5 | 50 | 50 | 50 | 47 | 29 | 27 |
| −1.5–< −1.0 | 104 | 108 | 109 | 107 | 95 | 89 |
| −1.0–< −0.5 | 135 | 135 | 135 | 136 | 127 | 125 |
| −0.5–< 0 | **\*145** | **\*152** | **\*153** | **\*151** | **\*145** | **\*140** |
| 0–< 0.5 | 103 | 110 | 112 | 113 | 112 | 108 |
| 0.5–< 1.0 | 129 | 132 | 136 | 137 | 136 | 136 |
| 1.0–< 1.5 | 88 | 90 | 94 | 97 | 97 | 96 |
| 1.5–< 2.0 | 52 | 56 | 63 | 64 | 65 | 65 |
| 2.0–< 2.5 | 50 | 55 | 54 | 56 | 56 | 56 |
| 2.5–< 3.0 | 21 | 24 | 24 | 24 | 27 | 26 |
| 3.0–< 3.5 | 14 | 14 | 14 | 15 | 15 | 15 |
| >= 3.5 | 11 | 12 | 13 | 13 | 13 | 13 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Six, 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 | 1 | 1 |
| −2.5–< −2.0 | 7 | 7 | 6 | 5 | 1 | N/A |
| −2.0–< −1.5 | 15 | 16 | 15 | 14 | 9 | 9 |
| −1.5–< −1.0 | 59 | 60 | 60 | 59 | 44 | 39 |
| −1.0–< −0.5 | 102 | 105 | 106 | 104 | 102 | 92 |
| −0.5–< 0 | **\*130** | **\*136** | **\*136** | **\*136** | **\*135** | 127 |
| 0–< 0.5 | 111 | 119 | 121 | 121 | 119 | 116 |
| 0.5–< 1.0 | 112 | 118 | 124 | 127 | 124 | 122 |
| 1.0–< 1.5 | 123 | 127 | 131 | 132 | 132 | **\*132** |
| 1.5–< 2.0 | 94 | 100 | 106 | 108 | 109 | 109 |
| 2.0–< 2.5 | 60 | 63 | 65 | 66 | 68 | 67 |
| 2.5–< 3.0 | 44 | 46 | 48 | 49 | 49 | 48 |
| 3.0–< 3.5 | 20 | 22 | 23 | 23 | 24 | 24 |
| >= 3.5 | 26 | 28 | 30 | 31 | 33 | 33 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Seven, 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 | 2 | 1 |
| −2.0–< −1.5 | 13 | 13 | 13 | 13 | 8 | 8 | 8 |
| −1.5–< −1.0 | 46 | 46 | 46 | 46 | 38 | 31 | 26 |
| −1.0–< −0.5 | 49 | 53 | 53 | 52 | 50 | 44 | 42 |
| −0.5–< 0 | 100 | 105 | 105 | 105 | 105 | 98 | 97 |
| 0–< 0.5 | 115 | 121 | 121 | 121 | 120 | 119 | 117 |
| 0.5–< 1.0 | 123 | 126 | 127 | 127 | 126 | 124 | 121 |
| 1.0–< 1.5 | **\*127** | **\*134** | **\*139** | **\*139** | **\*139** | **\*139** | **\*136** |
| 1.5–< 2.0 | 116 | 123 | 134 | 136 | 136 | 135 | 132 |
| 2.0–< 2.5 | 71 | 79 | 83 | 87 | 87 | 87 | 86 |
| 2.5–< 3.0 | 42 | 47 | 51 | 52 | 52 | 52 | 52 |
| 3.0–< 3.5 | 26 | 29 | 32 | 34 | 34 | 34 | 33 |
| >= 3.5 | 49 | 50 | 53 | 55 | 56 | 56 | 56 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Eight, 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 | 1 | N/A | N/A | N/A |
| −2.5–< −2.0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| −2.0–< −1.5 | 13 | 13 | 13 | 13 | 10 | 7 | 7 |
| −1.5–< −1.0 | 28 | 28 | 28 | 28 | 23 | 13 | 13 |
| −1.0–< −0.5 | 54 | 55 | 55 | 54 | 52 | 45 | 43 |
| −0.5–< 0 | **\*121** | **\*132** | **\*132** | **\*132** | **\*132** | 120 | 116 |
| 0–< 0.5 | 99 | 102 | 106 | 106 | 104 | 100 | 98 |
| 0.5–< 1.0 | 109 | 111 | 114 | 114 | 114 | 113 | 110 |
| 1.0–< 1.5 | 106 | 114 | 118 | 118 | 119 | 117 | 117 |
| 1.5–< 2.0 | 110 | 114 | 119 | 121 | 121 | **\*121** | **\*120** |
| 2.0–< 2.5 | 83 | 81 | 85 | 88 | 88 | 88 | 88 |
| 2.5–< 3.0 | 61 | 63 | 71 | 72 | 72 | 72 | 71 |
| 3.0–< 3.5 | 44 | 52 | 55 | 56 | 57 | 57 | 57 |
| >= 3.5 | 40 | 46 | 47 | 49 | 50 | 49 | 50 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Eleven, 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 | 1 | N/A |
| −2.0–< −1.5 | 9 | 9 | 9 | 8 | 7 | 5 | 4 |
| −1.5–< −1.0 | 28 | 28 | 28 | 28 | 20 | 19 | 14 |
| −1.0–< −0.5 | 92 | 92 | 92 | 92 | 86 | 79 | 49 |
| −0.5–< 0 | 190 | 190 | 190 | 189 | 182 | 175 | 132 |
| 0–< 0.5 | 245 | 248 | 248 | 246 | 243 | 230 | 170 |
| 0.5–< 1.0 | 311 | 318 | 320 | 320 | 320 | 308 | 251 |
| 1.0–< 1.5 | 304 | 312 | 313 | 314 | 313 | 311 | 244 |
| 1.5–< 2.0 | **\*362** | **\*383** | **\*391** | **\*393** | **\*391** | **\*382** | **\*311** |
| 2.0–< 2.5 | 320 | 340 | 350 | 352 | 351 | 349 | 297 |
| 2.5–< 3.0 | 260 | 270 | 281 | 286 | 285 | 283 | 261 |
| 3.0–< 3.5 | 193 | 197 | 207 | 209 | 209 | 205 | 190 |
| >= 3.5 | 277 | 293 | 306 | 311 | 313 | 308 | 249 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IRT *b*-value** | **2100–2199** | **2200–2299** | **2300–2399** | **2400–2499** | **2500–2599** | **2600–2699** |
| < −3.5 | 4 | 4 | 4 | 4 | 4 | 4 |
| −3.5–< −3.0 | 17 | 17 | 17 | 17 | 17 | 17 |
| −3.0–< −2.5 | 52 | 52 | 52 | 52 | 52 | 52 |
| −2.5–< −2.0 | 114 | 114 | 114 | 114 | 114 | 114 |
| −2.0–< −1.5 | 191 | 192 | 192 | 193 | 193 | 192 |
| −1.5–< −1.0 | 166 | 167 | 167 | 167 | 167 | 167 |
| −1.0–< −0.5 | 187 | 191 | 191 | 191 | 191 | 191 |
| −0.5–< 0 | **\*194** | **\*200** | **\*200** | **\*200** | **\*200** | **\*200** |
| 0–< 0.5 | 154 | 155 | 155 | 155 | 155 | 155 |
| 0.5–< 1.0 | 84 | 86 | 86 | 86 | 86 | 86 |
| 1.0–< 1.5 | 26 | 26 | 26 | 26 | 26 | 26 |
| 1.5–< 2.0 | 12 | 12 | 12 | 12 | 12 | 12 |
| 2.0–< 2.5 | 6 | 6 | 6 | 6 | 6 | 6 |
| 2.5–< 3.0 | 4 | 4 | 4 | 4 | 4 | 4 |
| 3.0–< 3.5 | 4 | 4 | 4 | 4 | 4 | 4 |
| >= 3.5 | 3 | 3 | 3 | 3 | 3 | 3 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Four, 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 | 4 | 4 | 3 | 3 | 3 | 3 |
| −3.0–< −2.5 | 13 | 13 | 13 | 11 | 10 | 9 |
| −2.5–< −2.0 | 33 | 33 | 33 | 32 | 31 | 31 |
| −2.0–< −1.5 | 78 | 78 | 78 | 78 | 78 | 78 |
| −1.5–< −1.0 | 134 | 134 | 134 | 134 | 134 | 130 |
| −1.0–< −0.5 | 187 | 187 | 187 | 187 | 187 | 178 |
| −0.5–< 0 | **\*250** | **\*250** | **\*250** | **\*250** | **\*250** | **\*241** |
| 0–< 0.5 | 229 | 229 | 229 | 229 | 229 | 228 |
| 0.5–< 1.0 | 180 | 180 | 180 | 180 | 180 | 180 |
| 1.0–< 1.5 | 98 | 98 | 98 | 98 | 98 | 98 |
| 1.5–< 2.0 | 42 | 42 | 42 | 42 | 42 | 42 |
| 2.0–< 2.5 | 22 | 22 | 22 | 22 | 22 | 22 |
| 2.5–< 3.0 | 6 | 6 | 6 | 6 | 6 | 6 |
| 3.0–< 3.5 | 4 | 4 | 4 | 4 | 4 | 4 |
| >= 3.5 | 6 | 6 | 6 | 6 | 6 | 6 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Five, 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 | 1 | 1 | 1 |
| −3.0–< −2.5 | 11 | 11 | 11 | 8 | 5 | 2 |
| −2.5–< −2.0 | 25 | 25 | 25 | 25 | 19 | 15 |
| −2.0–< −1.5 | 31 | 31 | 31 | 31 | 26 | 23 |
| −1.5–< −1.0 | 57 | 57 | 57 | 57 | 57 | 57 |
| −1.0–< −0.5 | 119 | 119 | 119 | 119 | 119 | 119 |
| −0.5–< 0 | 173 | 173 | 173 | 173 | 173 | 173 |
| 0–< 0.5 | **\*286** | **\*286** | **\*286** | **\*286** | **\*286** | **\*286** |
| 0.5–< 1.0 | 212 | 212 | 212 | 212 | 212 | 212 |
| 1.0–< 1.5 | 146 | 146 | 146 | 146 | 146 | 146 |
| 1.5–< 2.0 | 112 | 112 | 112 | 112 | 112 | 112 |
| 2.0–< 2.5 | 49 | 49 | 49 | 49 | 49 | 49 |
| 2.5–< 3.0 | 18 | 18 | 18 | 18 | 18 | 18 |
| 3.0–< 3.5 | 5 | 5 | 5 | 5 | 5 | 5 |
| >= 3.5 | 10 | 10 | 10 | 10 | 10 | 10 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Six, 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 | 1 | N/A | N/A |
| −3.0–< −2.5 | 4 | 4 | 4 | 4 | 4 | 4 |
| −2.5–< −2.0 | 17 | 17 | 17 | 17 | 10 | 9 |
| −2.0–< −1.5 | 39 | 39 | 39 | 39 | 35 | 35 |
| −1.5–< −1.0 | 40 | 40 | 40 | 40 | 39 | 39 |
| −1.0–< −0.5 | 77 | 77 | 77 | 77 | 77 | 77 |
| −0.5–< 0 | 91 | 91 | 91 | 91 | 91 | 91 |
| 0–< 0.5 | 127 | 127 | 127 | 127 | 127 | 127 |
| 0.5–< 1.0 | **\*202** | **\*202** | **\*202** | **\*202** | **\*202** | **\*202** |
| 1.0–< 1.5 | 199 | 199 | 199 | 199 | 199 | 199 |
| 1.5–< 2.0 | 165 | 165 | 165 | 165 | 165 | 165 |
| 2.0–< 2.5 | 107 | 107 | 107 | 107 | 107 | 107 |
| 2.5–< 3.0 | 50 | 50 | 50 | 50 | 50 | 50 |
| 3.0–< 3.5 | 31 | 31 | 31 | 31 | 31 | 31 |
| >= 3.5 | 53 | 53 | 53 | 53 | 53 | 53 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Seven, 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 | 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 | 11 | 11 | 11 | 11 | 11 | 7 | 7 |
| −1.5–< −1.0 | 25 | 25 | 25 | 25 | 24 | 21 | 21 |
| −1.0–< −0.5 | 48 | 48 | 48 | 48 | 48 | 47 | 47 |
| −0.5–< 0 | 57 | 57 | 57 | 57 | 57 | 57 | 57 |
| 0–< 0.5 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| 0.5–< 1.0 | 119 | 119 | 119 | 119 | 119 | 119 | 119 |
| 1.0–< 1.5 | 185 | 185 | 185 | 185 | 185 | 185 | 185 |
| 1.5–< 2.0 | **\*210** | **\*210** | **\*210** | **\*210** | **\*210** | **\*210** | **\*210** |
| 2.0–< 2.5 | 191 | 191 | 191 | 191 | 191 | 191 | 191 |
| 2.5–< 3.0 | 136 | 136 | 136 | 136 | 136 | 136 | 136 |
| 3.0–< 3.5 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| >= 3.5 | 73 | 73 | 73 | 73 | 73 | 73 | 73 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Eight, 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 | 13 | 13 | 13 | 13 | 12 | 8 | 8 |
| −1.5–< −1.0 | 21 | 21 | 21 | 21 | 21 | 17 | 16 |
| −1.0–< −0.5 | 43 | 43 | 43 | 43 | 43 | 41 | 40 |
| −0.5–< 0 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| 0–< 0.5 | 71 | 71 | 71 | 71 | 71 | 71 | 71 |
| 0.5–< 1.0 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| 1.0–< 1.5 | 102 | 102 | 102 | 102 | 102 | 102 | 102 |
| 1.5–< 2.0 | 113 | 113 | 113 | 113 | 113 | 113 | 113 |
| 2.0–< 2.5 | 142 | 142 | 142 | 142 | 142 | 142 | 142 |
| 2.5–< 3.0 | 123 | 123 | 123 | 123 | 123 | 123 | 123 |
| 3.0–< 3.5 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| >= 3.5 | **\*151** | **\*151** | **\*151** | **\*151** | **\*151** | **\*151** | **\*151** |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Eleven, 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 | 2 |
| −3.0–< −2.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| −2.5–< −2.0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 |
| −2.0–< −1.5 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| −1.5–< −1.0 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 23 |
| −1.0–< −0.5 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 44 |
| −0.5–< 0 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 62 |
| 0–< 0.5 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 120 |
| 0.5–< 1.0 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 145 |
| 1.0–< 1.5 | 211 | 211 | 211 | 211 | 211 | 211 | 211 | 209 |
| 1.5–< 2.0 | 283 | 283 | 283 | 283 | 283 | 283 | 283 | 273 |
| 2.0–< 2.5 | 342 | 342 | 342 | 342 | 342 | 342 | 342 | 331 |
| 2.5–< 3.0 | 392 | 392 | 392 | 392 | 392 | 392 | 392 | 391 |
| 3.0–< 3.5 | 248 | 248 | 248 | 248 | 248 | 248 | 248 | 247 |
| >= 3.5 | **\*521** | **\*521** | **\*521** | **\*521** | **\*521** | **\*521** | **\*521** | **\*505** |

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

Table 8.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Three, 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 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0.4–< 0.6 | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** |
| 0.6–< 0.8 | 27 | 27 | 27 | 27 | 27 | 27 |
| 0.8–< 1.0 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1.0–< 1.2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Four, 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 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0.4–< 0.6 | **\*45** | **\*45** | **\*45** | **\*45** | **\*45** | **\*45** |
| 0.6–< 0.8 | 22 | 22 | 22 | 22 | 22 | 22 |
| 0.8–< 1.0 | 7 | 7 | 7 | 7 | 7 | 7 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Five, 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 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0.4–< 0.6 | 26 | 26 | 26 | 26 | 26 | 26 |
| 0.6–< 0.8 | **\*34** | **\*34** | **\*34** | **\*34** | **\*34** | **\*34** |
| 0.8–< 1.0 | 12 | 12 | 12 | 12 | 12 | 12 |
| 1.0–< 1.2 | 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 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Six, 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 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0.4–< 0.6 | 14 | 14 | 14 | 14 | 14 | 14 |
| 0.6–< 0.8 | **\*30** | **\*30** | **\*30** | **\*30** | **\*30** | **\*30** |
| 0.8–< 1.0 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1.0–< 1.2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Seven, 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0.4–< 0.6 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| 0.6–< 0.8 | **\*33** | **\*33** | **\*33** | **\*33** | **\*33** | **\*33** | **\*33** |
| 0.8–< 1.0 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| 1.0–< 1.2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Eight, 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 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 0.4–< 0.6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 0.6–< 0.8 | **\*41** | **\*41** | **\*41** | **\*41** | **\*41** | **\*41** | **\*41** |
| 0.8–< 1.0 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—ELA, Grade Eleven, 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0.4–< 0.6 | **\*46** | **\*46** | **\*46** | **\*46** | **\*46** | **\*46** | **\*46** |
| 0.6–< 0.8 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Three, 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 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0.4–< 0.6 | 18 | 18 | 18 | 18 | 18 | 18 |
| 0.6–< 0.8 | 24 | 24 | 24 | 24 | 24 | 24 |
| 0.8–< 1.0 | 23 | 23 | 23 | 23 | 23 | 23 |
| 1.0–< 1.2 | **\*32** | **\*32** | **\*32** | **\*32** | **\*32** | **\*32** |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Four, 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 | **\*39** | **\*39** | **\*39** | **\*39** | **\*39** | **\*39** |
| 0.8–< 1.0 | 28 | 28 | 28 | 28 | 28 | 28 |
| 1.0–< 1.2 | 15 | 15 | 15 | 15 | 15 | 15 |
| 1.2–< 1.4 | 5 | 5 | 5 | 5 | 5 | 5 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Five, 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 | 11 | 11 | 11 | 11 | 11 | 11 |
| 0.4–< 0.6 | 32 | 32 | 32 | 32 | 32 | 32 |
| 0.6–< 0.8 | **\*49** | **\*49** | **\*49** | **\*49** | **\*49** | **\*49** |
| 0.8–< 1.0 | 32 | 32 | 32 | 32 | 32 | 32 |
| 1.0–< 1.2 | 14 | 14 | 14 | 14 | 14 | 14 |
| 1.2–< 1.4 | 6 | 6 | 6 | 6 | 6 | 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Six, 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 | 29 | 29 | 29 | 29 | 29 | 29 |
| 0.6–< 0.8 | **\*43** | **\*43** | **\*43** | **\*43** | **\*43** | **\*43** |
| 0.8–< 1.0 | 15 | 15 | 15 | 15 | 15 | 15 |
| 1.0–< 1.2 | 5 | 5 | 5 | 5 | 5 | 5 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Seven, 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0.4–< 0.6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1.2–< 1.4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1.4–< 1.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Eight, 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 0.4–< 0.6 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 0.6–< 0.8 | **\*14** | **\*14** | **\*14** | **\*14** | **\*14** | **\*14** | **\*14** |
| 0.8–< 1.0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1.0–< 1.2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1.2–< 1.4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 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.D. Distribution of IRT *a*-values Conditional on Ability—Mathematics, Grade Eleven, 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 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 0.4–< 0.6 | **\*21** | **\*21** | **\*21** | **\*21** | **\*21** | **\*21** | **\*21** | **\*21** |
| 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.D.71 through table 8.D.84, the mode of each distribution is **highlighted** in **bold** text and indicated using an asterisk (\*).

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Three, 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 | 3 | 3 | 3 | 3 | 3 | 3 |
| −1.5–< −1.0 | 16 | 16 | 16 | 16 | 16 | 16 |
| −1.0–< −0.5 | 13 | 13 | 13 | 13 | 13 | 13 |
| −0.5–< 0 | 10 | 10 | 10 | 10 | 10 | 10 |
| 0–< 0.5 | **\*18** | **\*18** | **\*18** | **\*18** | **\*18** | **\*18** |
| 0.5–< 1.0 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1.0–< 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1.5–< 2.0 | 4 | 4 | 4 | 4 | 4 | 4 |
| 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.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Four, 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 | 7 | 7 | 7 | 7 | 7 | 7 |
| −1.0–< −0.5 | 13 | 13 | 13 | 13 | 13 | 13 |
| −0.5–< 0 | **\*20** | **\*20** | **\*20** | **\*20** | **\*20** | **\*20** |
| 0–< 0.5 | 15 | 15 | 15 | 15 | 15 | 15 |
| 0.5–< 1.0 | 14 | 14 | 14 | 14 | 14 | 14 |
| 1.0–< 1.5 | 8 | 8 | 8 | 8 | 8 | 8 |
| 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 | 1 | 1 | 1 | 1 | 1 | 1 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Five, 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 | 3 | 3 | 3 | 3 | 3 | 3 |
| −1.0–< −0.5 | 13 | 13 | 13 | 13 | 13 | 13 |
| −0.5–< 0 | 18 | 18 | 18 | 18 | 18 | 18 |
| 0–< 0.5 | **\*20** | **\*20** | **\*20** | **\*20** | **\*20** | **\*20** |
| 0.5–< 1.0 | 15 | 15 | 15 | 15 | 15 | 15 |
| 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.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Six, 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 | 13 | 13 | 13 | 13 | 13 | 13 |
| −0.5–< 0 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0–< 0.5 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0.5–< 1.0 | **\*18** | **\*18** | **\*18** | **\*18** | **\*18** | **\*18** |
| 1.0–< 1.5 | 9 | 9 | 9 | 9 | 9 | 9 |
| 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 | 1 | 1 | 1 | 1 | 1 | 1 |
| 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.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Seven, 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 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 0–< 0.5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0.5–< 1.0 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 2.5–< 3.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3.0–< 3.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Eight, 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| −1.0–< −0.5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| −0.5–< 0 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 0–< 0.5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0.5–< 1.0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1.0–< 1.5 | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** |
| 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3.0–< 3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| >= 3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—ELA, Grade Eleven, 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| −0.5–< 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 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 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| 1.5–< 2.0 | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** | **\*29** |
| 2.0–< 2.5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 2.5–< 3.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3.0–< 3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| >= 3.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Three, 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 | 1 | 1 | 1 | 1 | 1 | 1 |
| −2.0–< −1.5 | 12 | 12 | 12 | 12 | 12 | 12 |
| −1.5–< −1.0 | **\*28** | **\*28** | **\*28** | **\*28** | **\*28** | **\*28** |
| −1.0–< −0.5 | 22 | 22 | 22 | 22 | 22 | 22 |
| −0.5–< 0 | 24 | 24 | 24 | 24 | 24 | 24 |
| 0–< 0.5 | 15 | 15 | 15 | 15 | 15 | 15 |
| 0.5–< 1.0 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1.0–< 1.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 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.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Four, 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 | 7 | 7 | 7 | 7 | 7 | 7 |
| −1.5–< −1.0 | 14 | 14 | 14 | 14 | 14 | 14 |
| −1.0–< −0.5 | 13 | 13 | 13 | 13 | 13 | 13 |
| −0.5–< 0 | 10 | 10 | 10 | 10 | 10 | 10 |
| 0–< 0.5 | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** | **\*26** |
| 0.5–< 1.0 | 19 | 19 | 19 | 19 | 19 | 19 |
| 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.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Five, 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 | 5 | 5 | 5 | 5 | 5 | 5 |
| −2.0–< −1.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| −1.5–< −1.0 | 9 | 9 | 9 | 9 | 9 | 9 |
| −1.0–< −0.5 | 9 | 9 | 9 | 9 | 9 | 9 |
| −0.5–< 0 | 16 | 16 | 16 | 16 | 16 | 16 |
| 0–< 0.5 | 17 | 17 | 17 | 17 | 17 | 17 |
| 0.5–< 1.0 | **\*42** | **\*42** | **\*42** | **\*42** | **\*42** | **\*42** |
| 1.0–< 1.5 | 25 | 25 | 25 | 25 | 25 | 25 |
| 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.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Six, 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 | 16 | 16 | 16 | 16 | 16 | 16 |
| −0.5–< 0 | 11 | 11 | 11 | 11 | 11 | 11 |
| 0–< 0.5 | 13 | 13 | 13 | 13 | 13 | 13 |
| 0.5–< 1.0 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1.0–< 1.5 | 16 | 16 | 16 | 16 | 16 | 16 |
| 1.5–< 2.0 | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** | **\*19** |
| 2.0–< 2.5 | 9 | 9 | 9 | 9 | 9 | 9 |
| 2.5–< 3.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3.0–< 3.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Seven, 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0–< 0.5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0.5–< 1.0 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.0–< 1.5 | **\*15** | **\*15** | **\*15** | **\*15** | **\*15** | **\*15** | **\*15** |
| 1.5–< 2.0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 2.0–< 2.5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 2.5–< 3.0 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 3.0–< 3.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| >= 3.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Eight, 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| −1.0–< −0.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| −0.5–< 0 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0–< 0.5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0.5–< 1.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1.0–< 1.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1.5–< 2.0 | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** |
| 2.0–< 2.5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 2.5–< 3.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 3.0–< 3.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| >= 3.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 8.D. Distribution of IRT *b*-values Conditional on Ability—Mathematics, Grade Eleven, 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| −0.5–< 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 | N/A |
| 0.5–< 1.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1.0–< 1.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1.5–< 2.0 | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** |
| 2.0–< 2.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 2.5–< 3.0 | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** |
| 3.0–< 3.5 | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** | **\*11** |
| >= 3.5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

**Note:** Column-head abbreviations in table 8.D.85 through table 8.D.98 are as follows:

* A—IRT discrimination parameter
* B—IRT difficulty parameter
* D—IRT step parameter

Table 8.D. PT Item Statistics—ELA, Grade Three

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |
| VH295225 | 2 | 0.90 | 0.80 | 0.08, −0.08 |
| VH295343 | 2 | 0.99 | 0.66 | 0.43, −0.43 |
| VH295345 | 3 | 0.67 | −0.78 | 1.95, 0.04, −1.99 |
| VH295346 | 2 | 0.73 | −1.41 | 0.82, −0.82 |
| VH295417 | 1 | 0.62 | 1.59 | N/A |
| 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 | 0.55 | −0.79 | 0.73, −0.73 |
| VH295564 | 2 | 0.64 | 0.36 | 0.91, −0.91 |
| VH295658 | 2 | 1.02 | 0.24 | 0.42, −0.42 |
| 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 |
| VH295674 | 2 | 0.55 | −0.19 | 0.13, −0.13 |
| VH295685 | 4 | 0.54 | 0.13 | 0.74, 1.33, −0.18, −1.89 |
| VH295686 | 2 | 0.73 | −0.95 | 0.85, −0.85 |
| VH295688 | 2 | 0.91 | 1.18 | 0.50, −0.50 |
| VH295711 | 2 | 0.47 | −0.73 | −0.70, 0.70 |
| VH295714 | 3 | 0.66 | −0.03 | 1.02, 0.40, −1.42 |
| VH295715 | 2 | 0.75 | −0.62 | 0.35, −0.35 |
| VH295877 | 2 | 0.69 | 0.61 | 0.42, −0.42 |
| VH295881 | 4 | 0.64 | 0.03 | 0.76, 1.07, −0.24, −1.59 |
| VH295882 | 2 | 0.80 | −1.18 | 0.51, −0.51 |
| VH295913 | 3 | 0.71 | −0.36 | 1.40, −0.01, −1.39 |
| VH295914 | 2 | 0.86 | −0.93 | 0.38, −0.38 |
| VH295916 | 1 | 0.61 | 0.04 | N/A |
| VH295947 | 2 | 0.38 | −0.57 | 0.57, −0.57 |
| VH295951 | 4 | 0.38 | 0.85 | −0.74, 1.91, 0.08, −1.25 |
| VH295952 | 2 | 0.60 | 0.19 | −0.28, 0.28 |
| VH295995 | 2 | 0.98 | 1.02 | 0.40, −0.40 |
| VH295998 | 3 | 0.58 | −0.44 | 1.64, −0.11, −1.53 |
| VH295999 | 2 | 0.63 | −1.10 | 0.36, −0.36 |
| VH296066 | 1 | 0.86 | 0.01 | N/A |
| VH296069 | 4 | 0.49 | 0.62 | 0.12, 1.42, 0.17, −1.71 |
| VH296070 | 2 | 0.51 | −1.13 | 0.39, −0.39 |
| VH945443 | 1 | 0.64 | 0.65 | N/A |
| VH945445 | 4 | 0.36 | 0.07 | −0.35, 2.12, 0.16, −1.92 |
| VH945446 | 2 | 0.60 | −1.44 | 0.63, −0.63 |
| VH945453 | 1 | 0.40 | −1.25 | N/A |
| VH945455 | 4 | 0.45 | 0.23 | 2.65, 0.78, −0.51, −2.92 |
| VH945456 | 2 | 0.51 | −1.52 | 0.45, −0.45 |
| VH945557 | 1 | 0.47 | 1.86 | N/A |
| VH945559 | 4 | 0.52 | 0.19 | 2.00, 0.88, −1.04, −1.85 |
| VH945560 | 2 | 0.55 | −1.29 | 0.28, −0.28 |
| VH945567 | 1 | 0.41 | −0.31 | N/A |
| VH945569 | 4 | 0.28 | 0.79 | −0.81, 1.87, −0.01, −1.05 |
| VH945570 | 2 | 0.64 | −1.21 | 0.47, −0.47 |
| VH945578 | 2 | 0.71 | 0.28 | 0.76, −0.76 |
| VH945580 | 4 | 0.48 | 0.09 | 1.87, 0.84, −0.71, −1.99 |
| VH945581 | 2 | 0.54 | −1.39 | 0.18, −0.18 |
| VR552691 | 2 | 0.73 | 0.30 | 0.54, −0.54 |
| VR552693 | 4 | 0.63 | 0.12 | 2.21, 0.52, −1.18, −1.54 |
| VR552694 | 2 | 0.68 | −1.35 | 0.24, −0.24 |
| VR552701 | 1 | 0.42 | −1.87 | N/A |
| VR552703 | 4 | 0.52 | 0.15 | 2.68, 0.33, −1.03, −1.98 |
| VR552704 | 2 | 0.63 | −1.27 | 0.33, −0.33 |
| VR552746 | 1 | 0.60 | 1.63 | N/A |
| VR552748 | 3 | 0.59 | −0.26 | 2.14, −0.45, −1.69 |
| VR552749 | 2 | 0.59 | −1.09 | 0.35, −0.35 |
| VR552781 | 1 | 0.52 | 0.81 | N/A |
| VR552783 | 4 | 0.40 | −0.32 | −0.91, 2.74, −0.11, −1.73 |
| VR552784 | 2 | 0.70 | −0.76 | 0.92, −0.92 |
| VR552871 | 2 | 0.76 | 0.50 | 0.75, −0.75 |
| VR552873 | 4 | 0.36 | 0.28 | −0.79, 2.24, 0.23, −1.68 |
| VR552874 | 2 | 0.56 | −1.35 | 0.36, −0.36 |
| VR552881 | 1 | 0.66 | 1.54 | N/A |
| VR552883 | 4 | 0.50 | 0.43 | 2.75, 0.57, −1.18, −2.15 |
| VR552884 | 2 | 0.50 | −1.53 | −0.04, 0.04 |
| VR552896 | 1 | 0.28 | −0.67 | N/A |
| VR552898 | 4 | 0.52 | −0.06 | 2.52, 0.31, −1.31, −1.52 |
| VR552899 | 2 | 0.59 | −1.47 | 0.44, −0.44 |

Table 8.D. PT Item Statistics—ELA, Grade Four

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295257 | 2 | 0.71 | 1.07 | 0.56, −0.56 |
| VH295259 | 4 | 0.41 | 0.10 | −0.21, 1.51, 0.11, −1.41 |
| VH295260 | 2 | 0.56 | −0.79 | 0.68, −0.68 |
| VH295349 | 2 | 0.60 | −0.16 | 0.14, −0.14 |
| VH295352 | 4 | 0.52 | −0.06 | 0.63, 1.05, −0.43, −1.25 |
| VH295353 | 2 | 0.56 | −0.68 | 0.73, −0.73 |
| VH295423 | 2 | 0.80 | 0.51 | 0.62, −0.62 |
| VH295427 | 4 | 0.39 | 0.97 | 2.10, 1.67, −0.61, −3.16 |
| VH295428 | 2 | 0.53 | −0.25 | −0.04, 0.04 |
| VH295492 | 2 | 1.03 | 0.78 | 0.97, −0.97 |
| VH295494 | 4 | 0.61 | 0.44 | 2.26, 1.03, −0.80, −2.48 |
| VH295495 | 2 | 0.87 | −0.36 | 0.43, −0.43 |
| VH295520 | 2 | 0.48 | 0.10 | 0.55, −0.55 |
| VH295523 | 4 | 0.60 | 0.36 | 1.49, 1.33, −0.47, −2.34 |
| VH295524 | 2 | 0.85 | −0.39 | 0.27, −0.27 |
| VH295642 | 1 | 0.40 | −1.52 | N/A |
| VH295645 | 4 | 0.49 | 0.20 | 0.29, 1.19, −0.20, −1.29 |
| VH295646 | 2 | 0.54 | −1.03 | 0.77, −0.77 |
| VH295705 | 2 | 0.89 | 0.77 | 0.27, −0.27 |
| VH295708 | 3 | 0.65 | −0.26 | 0.74, 0.41, −1.15 |
| VH295709 | 2 | 0.90 | −0.30 | 0.40, −0.40 |
| VH295730 | 2 | 0.53 | 0.03 | −0.89, 0.89 |
| VH295732 | 4 | 0.45 | 0.59 | 1.54, 1.38, −0.23, −2.68 |
| VH295733 | 2 | 0.67 | −0.36 | 0.01, −0.01 |
| VH295774 | 1 | 0.70 | 0.50 | N/A |
| VH295776 | 4 | 0.53 | −0.10 | 0.86, 1.00, −0.54, −1.31 |
| VH295777 | 2 | 0.51 | −0.71 | 0.69, −0.69 |
| VH295779 | 2 | 0.51 | 0.97 | 0.68, −0.68 |
| VH295782 | 4 | 0.43 | 0.34 | 0.49, 1.24, 0.04, −1.77 |
| VH295783 | 2 | 0.54 | −0.72 | 0.72, −0.72 |
| VH295788 | 3 | 0.63 | −0.46 | 0.83, 0.37, −1.20 |
| VH295789 | 2 | 0.94 | −0.31 | 0.52, −0.52 |
| VH295791 | 1 | 0.41 | 0.13 | N/A |
| VH295859 | 4 | 0.55 | 0.16 | 0.21, 1.19, −0.18, −1.22 |
| VH295860 | 2 | 0.52 | −1.02 | 0.65, −0.65 |
| VH295861 | 1 | 0.52 | 1.41 | N/A |
| VH295863 | 2 | 0.93 | 1.00 | 0.33, −0.33 |
| VH295866 | 4 | 0.49 | 0.24 | 0.45, 1.17, −0.06, −1.56 |
| VH295867 | 2 | 0.58 | −0.69 | 0.74, −0.74 |
| VH295893 | 4 | 0.47 | 0.61 | 1.95, 1.55, −0.83, −2.67 |
| VH295894 | 2 | 0.65 | −0.44 | 0.28, −0.28 |
| VH295895 | 2 | 0.67 | −0.48 | 0.23, −0.23 |
| VH295954 | 2 | 0.58 | 0.62 | −0.05, 0.05 |
| VH295957 | 3 | 0.44 | −0.15 | 1.28, 0.63, −1.90 |
| VH295958 | 2 | 0.66 | −0.34 | 0.16, −0.16 |
| VH945428 | 1 | 0.46 | 1.48 | N/A |
| VH945430 | 4 | 0.38 | 0.30 | −0.43, 1.30, 0.10, −0.96 |
| VH945431 | 2 | 0.66 | −1.13 | 0.44, −0.44 |
| VH945438 | 2 | 0.62 | 0.93 | 1.04, −1.04 |
| VH945440 | 4 | 0.41 | 1.07 | 2.57, 1.57, −0.77, −3.37 |
| VH945441 | 2 | 0.48 | −0.53 | −0.10, 0.10 |
| VH945562 | 1 | 0.49 | −1.76 | N/A |
| VH945564 | 4 | 0.49 | 0.85 | 2.43, 1.36, −0.81, −2.98 |
| VH945565 | 2 | 0.55 | −0.58 | 0.00, 0.00 |
| VH945587 | 2 | 0.50 | 0.57 | 0.50, −0.50 |
| VH945589 | 4 | 0.37 | 0.04 | −0.05, 1.45, −0.39, −1.01 |
| VH945590 | 2 | 0.72 | −0.97 | 0.42, −0.42 |
| VR552626 | 2 | 0.57 | 1.59 | 0.82, −0.82 |
| VR552628 | 4 | 0.58 | 0.75 | 2.80, 1.55, −1.60, −2.75 |
| VR552629 | 2 | 0.63 | −1.28 | 0.22, −0.22 |
| VR552636 | 1 | 0.43 | −1.27 | N/A |
| VR552638 | 4 | 0.37 | −0.31 | 0.03, 1.36, −0.39, −1.00 |
| VR552639 | 2 | 0.65 | −0.97 | 0.72, −0.72 |
| VR552711 | 1 | 0.71 | 1.02 | N/A |
| VR552713 | 3 | 0.46 | −0.09 | 2.18, 0.15, −2.33 |
| VR552714 | 2 | 0.55 | −1.01 | 0.23, −0.23 |
| VR552721 | 2 | 0.58 | 0.30 | 0.48, −0.48 |
| VR552723 | 4 | 0.40 | −0.29 | 0.27, 1.31, −0.41, −1.18 |
| VR552724 | 2 | 0.71 | −0.83 | 0.64, −0.64 |
| VR552741 | 2 | 0.47 | 1.34 | 0.25, −0.25 |
| VR552743 | 4 | 0.37 | 0.12 | −1.12, 2.02, 0.08, −0.99 |
| VR552744 | 2 | 0.68 | −0.85 | 0.62, −0.62 |
| VR552791 | 1 | 0.17 | 5.01 | N/A |
| VR552793 | 4 | 0.47 | −0.04 | 0.45, 1.82, −0.58, −1.68 |
| VR552794 | 2 | 0.62 | −0.60 | 0.42, −0.42 |
| VR552796 | 1 | 0.55 | 0.73 | N/A |
| VR552798 | 3 | 0.55 | −0.25 | 2.18, 0.39, −2.56 |
| VR552799 | 2 | 0.63 | −1.47 | 0.24, −0.24 |
| VR552831 | 1 | 0.59 | 1.25 | N/A |
| VR552833 | 4 | 0.57 | 0.32 | 1.94, 1.15, −0.80, −2.29 |
| VR552834 | 2 | 0.73 | −0.64 | 0.79, −0.79 |

Table 8.D. PT Item Statistics—ELA, Grade Five

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295213 | 1 | 0.65 | 0.21 | N/A |
| VH295216 | 4 | 0.54 | 0.30 | 0.63, 1.85, −0.21, −2.27 |
| VH295217 | 2 | 0.65 | −0.70 | 0.83, −0.83 |
| VH295229 | 2 | 0.58 | 1.57 | 0.89, −0.89 |
| VH295231 | 4 | 0.65 | 0.07 | 1.86, 0.83, −0.65, −2.03 |
| VH295232 | 2 | 0.81 | −0.29 | 0.95, −0.95 |
| VH295404 | 2 | 0.80 | 0.88 | 0.29, −0.29 |
| VH295407 | 4 | 0.59 | −0.10 | 2.19, 0.67, −0.72, −2.14 |
| VH295408 | 2 | 0.77 | −0.43 | 1.02, −1.02 |
| VH295430 | 2 | 0.67 | −0.00 | 0.59, −0.59 |
| VH295432 | 4 | 0.66 | 0.09 | 1.89, 0.89, −0.62, −2.16 |
| VH295433 | 2 | 0.98 | −0.40 | 0.89, −0.89 |
| VH295450 | 2 | 0.79 | 0.76 | 0.37, −0.37 |
| VH295453 | 4 | 0.57 | 0.05 | 2.34, 0.75, −0.66, −2.42 |
| VH295454 | 2 | 0.82 | −0.42 | 1.06, −1.06 |
| VH295541 | 2 | 0.87 | 0.82 | 0.47, −0.47 |
| VH295544 | 4 | 0.56 | 0.24 | 2.05, 0.80, −0.55, −2.30 |
| VH295545 | 2 | 0.87 | −0.22 | 0.94, −0.94 |
| VH295794 | 4 | 0.64 | 0.29 | 2.21, 0.77, −0.40, −2.58 |
| VH295795 | 2 | 0.91 | −0.22 | 0.75, −0.75 |
| VH295796 | 1 | 0.60 | 1.40 | N/A |
| VH295807 | 2 | 0.75 | 0.38 | 0.50, −0.50 |
| VH295811 | 4 | 0.64 | 0.24 | 1.07, 1.20, −0.10, −2.17 |
| VH295812 | 2 | 0.68 | −0.71 | 0.85, −0.85 |
| VH295836 | 4 | 0.61 | 0.28 | 0.58, 1.49, −0.27, −1.80 |
| VH295837 | 2 | 0.69 | −0.77 | 0.93, −0.93 |
| VH295838 | 1 | 0.50 | 0.45 | N/A |
| VH295901 | 4 | 0.41 | 1.00 | −0.73, 2.33, 0.26, −1.86 |
| VH295902 | 2 | 0.69 | −0.54 | 0.86, −0.86 |
| VH295903 | 1 | 0.63 | 1.66 | N/A |
| VH295921 | 4 | 0.57 | 0.29 | 0.49, 1.43, −0.06, −1.86 |
| VH295922 | 2 | 0.69 | −0.80 | 0.90, −0.90 |
| VH295924 | 1 | 0.40 | −0.66 | N/A |
| VH295968 | 2 | 0.87 | 0.90 | 0.45, −0.45 |
| VH295972 | 4 | 0.59 | 0.21 | 2.39, 0.67, −0.69, −2.37 |
| VH295973 | 2 | 0.91 | −0.22 | 0.85, −0.85 |
| VH296044 | 2 | 0.72 | 0.74 | 0.55, −0.55 |
| VH296048 | 4 | 0.56 | −0.04 | 0.04, 1.56, −0.11, −1.49 |
| VH296049 | 2 | 0.64 | −0.64 | 0.86, −0.86 |
| VH296073 | 4 | 0.66 | 0.14 | 2.09, 0.72, −0.44, −2.38 |
| VH296075 | 2 | 0.91 | −0.28 | 0.91, −0.91 |
| VH296077 | 2 | 0.94 | 0.95 | 0.29, −0.29 |
| VH296080 | 2 | 0.50 | −0.34 | 0.30, −0.30 |
| VH296082 | 4 | 0.58 | 0.11 | 2.42, 0.83, −0.70, −2.55 |
| VH296083 | 2 | 0.80 | −0.34 | 1.13, −1.13 |
| VH296088 | 2 | 0.68 | 0.44 | −0.03, 0.03 |
| VH296091 | 4 | 0.62 | 0.24 | 0.82, 1.69, −0.35, −2.16 |
| VH296092 | 2 | 0.70 | −0.65 | 0.77, −0.77 |
| VH945408 | 2 | 0.56 | 1.24 | 0.42, −0.42 |
| VH945410 | 4 | 0.28 | 0.62 | 2.06, 1.82, −0.77, −3.10 |
| VH945411 | 2 | 0.26 | −1.69 | −1.43, 1.43 |
| VH945448 | 1 | 0.61 | 1.55 | N/A |
| VH945450 | 4 | 0.26 | 0.95 | 1.54, 2.06, −0.35, −3.26 |
| VH945451 | 2 | 0.30 | −0.89 | −0.15, 0.15 |
| VH945516 | 2 | 0.47 | 1.68 | 0.49, −0.49 |
| VH945518 | 4 | 0.29 | 0.87 | 2.00, 1.59, −0.33, −3.26 |
| VH945519 | 2 | 0.33 | −0.97 | 0.19, −0.19 |
| VH945600 | 1 | 0.55 | 1.64 | N/A |
| VH945602 | 4 | 0.37 | −0.10 | −1.11, 1.76, 0.65, −1.30 |
| VH945603 | 2 | 0.78 | −0.43 | 0.97, −0.97 |
| VR552651 | 1 | 0.38 | −1.29 | N/A |
| VR552653 | 4 | 0.41 | −0.05 | −0.04, 1.51, 0.48, −1.95 |
| VR552654 | 2 | 0.65 | −0.28 | 1.09, −1.09 |
| VR552696 | 2 | 0.82 | 1.53 | 0.39, −0.39 |
| VR552698 | 4 | 0.47 | 0.70 | 2.81, 1.08, −0.76, −3.13 |
| VR552699 | 2 | 0.60 | −0.95 | 0.65, −0.65 |
| VR552706 | 1 | 0.69 | 1.30 | N/A |
| VR552708 | 4 | 0.36 | 0.59 | −1.47, 2.02, 0.91, −1.46 |
| VR552709 | 2 | 0.66 | −0.22 | 0.66, −0.66 |
| VR552726 | 1 | 0.76 | 0.25 | N/A |
| VR552728 | 4 | 0.51 | 0.89 | 2.63, 1.25, −0.94, −2.94 |
| VR552729 | 2 | 0.56 | −0.95 | 0.46, −0.46 |
| VR552821 | 1 | 0.43 | 0.55 | N/A |
| VR552823 | 4 | 0.55 | 0.57 | 3.28, 0.82, −0.85, −3.24 |
| VR552824 | 2 | 0.70 | −1.13 | 0.94, −0.94 |
| VR552861 | 1 | 0.52 | 0.07 | N/A |
| VR552863 | 4 | 0.65 | 0.52 | 2.76, 0.95, −0.79, −2.92 |
| VR552864 | 2 | 0.64 | −1.11 | 0.97, −0.97 |
| VR552866 | 1 | 0.49 | 1.93 | N/A |
| VR552868 | 4 | 0.61 | 0.09 | 2.56, 0.85, −0.91, −2.50 |
| VR552869 | 2 | 0.72 | −0.97 | 0.96, −0.96 |

Table 8.D. PT Item Statistics—ELA, Grade Six

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295664 | 4 | 0.74 | 0.42 | 0.50, 1.14, −0.19, −1.45 |
| VH295665 | 2 | 0.70 | −0.58 | 0.30, −0.30 |
| VH295666 | 2 | 0.72 | 1.04 | 0.73, −0.73 |
| VH295677 | 2 | 0.87 | 1.63 | 0.73, −0.73 |
| VH295681 | 4 | 0.83 | 0.67 | 1.30, 1.07, −0.57, −1.81 |
| VH295682 | 2 | 1.14 | −0.14 | 0.25, −0.25 |
| VH295691 | 2 | 0.90 | 1.48 | 0.68, −0.68 |
| VH295694 | 4 | 0.63 | 0.72 | 1.91, 0.76, −0.74, −1.93 |
| VH295695 | 2 | 0.88 | −0.05 | 0.32, −0.32 |
| VH295752 | 2 | 0.89 | 1.32 | 0.44, −0.44 |
| VH295755 | 4 | 0.79 | 0.46 | 2.02, 0.63, −0.84, −1.80 |
| VH295756 | 2 | 0.91 | −0.21 | 0.30, −0.30 |
| VH295821 | 2 | 0.78 | 1.10 | 0.34, −0.34 |
| VH295825 | 4 | 0.77 | 0.58 | 2.19, 1.31, −0.76, −2.74 |
| VH295826 | 2 | 0.95 | −0.44 | 0.38, −0.38 |
| VH295872 | 2 | 0.74 | 0.79 | 0.32, −0.32 |
| VH295874 | 4 | 0.69 | 0.60 | 0.13, 1.24, −0.19, −1.17 |
| VH295875 | 2 | 0.72 | −0.58 | 0.24, −0.24 |
| VH295933 | 1 | 0.64 | −0.11 | N/A |
| VH295937 | 4 | 0.96 | 0.65 | 1.59, 0.67, −0.64, −1.62 |
| VH295938 | 2 | 1.09 | −0.00 | 0.29, −0.29 |
| VH295983 | 2 | 0.67 | 0.61 | 0.52, −0.52 |
| VH295985 | 4 | 0.94 | 0.53 | 2.16, 1.10, −0.90, −2.37 |
| VH295986 | 2 | 1.07 | −0.30 | 0.41, −0.41 |
| VH945511 | 2 | 0.48 | 1.63 | −0.48, 0.48 |
| VH945513 | 4 | 0.46 | 1.08 | 2.38, 1.25, −0.70, −2.92 |
| VH945514 | 2 | 0.55 | −0.56 | 0.14, −0.14 |
| VH945531 | 1 | 0.60 | 1.59 | N/A |
| VH945533 | 4 | 0.37 | 0.95 | −0.71, 1.96, 0.76, −2.01 |
| VH945534 | 2 | 0.72 | −0.82 | 0.42, −0.42 |
| VH945541 | 2 | 0.48 | −0.08 | 0.45, −0.45 |
| VH945543 | 4 | 0.46 | 1.11 | 2.40, 1.04, −1.13, −2.31 |
| VH945544 | 2 | 0.49 | −0.66 | −0.15, 0.15 |
| VH945546 | 1 | 0.61 | 1.42 | N/A |
| VH945548 | 4 | 0.39 | 1.38 | 2.62, 1.15, −0.86, −2.91 |
| VH945549 | 2 | 0.44 | −0.39 | −0.06, 0.06 |
| VR552641 | 1 | 0.74 | 1.85 | N/A |
| VR552643 | 4 | 0.55 | 0.65 | 1.31, 1.35, −0.39, −2.27 |
| VR552644 | 2 | 0.75 | −0.72 | 0.53, −0.53 |
| VR552646 | 2 | 0.87 | 1.25 | 0.66, −0.66 |
| VR552648 | 4 | 0.73 | 0.72 | 2.48, 0.87, −1.11, −2.23 |
| VR552649 | 2 | 0.72 | −0.78 | 0.28, −0.28 |
| VR552731 | 2 | 0.75 | 1.90 | 0.47, −0.47 |
| VR552733 | 4 | 0.64 | 0.57 | 2.56, 1.00, −1.16, −2.39 |
| VR552734 | 2 | 0.65 | −0.97 | 0.16, −0.16 |
| VR552736 | 1 | 0.35 | 1.68 | N/A |
| VR552738 | 4 | 0.71 | 0.70 | 2.10, 1.16, −1.12, −2.14 |
| VR552739 | 2 | 0.69 | −0.73 | 0.09, −0.09 |
| VR552756 | 1 | 0.45 | 1.63 | N/A |
| VR552758 | 4 | 0.70 | 0.79 | 2.19, 1.19, −1.15, −2.23 |
| VR552759 | 2 | 0.74 | −0.84 | 0.03, −0.03 |
| VR552761 | 1 | 0.58 | 2.67 | N/A |
| VR552763 | 4 | 0.52 | 0.50 | 0.59, 1.73, −0.24, −2.08 |
| VR552764 | 2 | 0.70 | −0.95 | 0.37, −0.37 |
| VR552806 | 2 | 0.56 | 0.75 | 0.16, −0.16 |
| VR552808 | 4 | 0.70 | 0.47 | 2.45, 0.87, −0.95, −2.36 |
| VR552809 | 2 | 0.73 | −0.90 | 0.23, −0.23 |
| VR552856 | 2 | 0.52 | 0.93 | −0.15, 0.15 |
| VR552858 | 4 | 0.66 | 0.82 | 2.40, 0.90, −1.10, −2.20 |
| VR552859 | 2 | 0.64 | −0.75 | −0.10, 0.10 |

Table 8.D. PT Item Statistics—ELA, Grade Seven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295263 | 2 | 0.82 | 0.82 | 0.24, −0.24 |
| VH295267 | 3 | 0.73 | 0.51 | 1.74, −0.04, −1.70 |
| VH295268 | 2 | 0.87 | −0.03 | 0.64, −0.64 |
| VH295306 | 2 | 0.89 | 1.22 | 0.34, −0.34 |
| 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 |
| VH295325 | 2 | 0.91 | 1.43 | 0.39, −0.39 |
| VH295335 | 3 | 1.25 | 0.63 | 1.33, −0.05, −1.28 |
| VH295336 | 2 | 1.50 | 0.34 | 0.54, −0.54 |
| VH295339 | 2 | 0.81 | 0.96 | 0.43, −0.43 |
| VH295371 | 2 | 0.75 | 2.38 | 0.92, −0.92 |
| 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 |
| VH295401 | 2 | 0.81 | 1.28 | 0.29, −0.29 |
| VH295411 | 4 | 0.88 | 1.24 | 2.21, 0.70, −0.68, −2.23 |
| VH295412 | 2 | 1.00 | −0.13 | 0.30, −0.30 |
| VH295415 | 2 | 0.66 | 2.11 | 0.47, −0.47 |
| VH295505 | 2 | 0.54 | 1.19 | 0.00, 0.00 |
| VH295509 | 3 | 0.80 | 0.73 | 1.48, 0.29, −1.76 |
| VH295510 | 2 | 0.97 | 0.12 | 0.48, −0.48 |
| 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 | 0.63 | −0.52 | 0.12, −0.12 |
| VH295574 | 2 | 0.72 | 1.15 | −0.05, 0.05 |
| VH295577 | 4 | 0.66 | 0.78 | 1.47, 0.65, −0.32, −1.79 |
| VH295578 | 2 | 0.62 | −0.42 | 0.46, −0.46 |
| VH295635 | 2 | 0.66 | 2.02 | 0.17, −0.17 |
| VH295637 | 3 | 0.70 | 0.56 | 1.31, 0.22, −1.53 |
| VH295638 | 2 | 0.88 | −0.00 | 0.40, −0.40 |
| VH295717 | 2 | 0.75 | 2.05 | 0.27, −0.27 |
| VH295720 | 3 | 0.94 | 0.63 | 1.53, −0.11, −1.42 |
| VH295721 | 2 | 0.99 | 0.15 | 0.52, −0.52 |
| VH295759 | 2 | 0.76 | 1.28 | 0.18, −0.18 |
| VH295762 | 4 | 0.66 | 1.08 | 0.75, 0.72, 0.00, −1.47 |
| VH295763 | 2 | 0.60 | −0.49 | 0.03, −0.03 |
| VH295907 | 3 | 0.71 | 0.84 | 1.51, −0.10, −1.41 |
| VH295908 | 2 | 0.92 | 0.37 | 0.58, −0.58 |
| VH295909 | 2 | 0.72 | 1.08 | 0.17, −0.17 |
| VH296102 | 2 | 1.00 | 1.40 | 0.35, −0.35 |
| VH296105 | 3 | 1.00 | 0.59 | 1.27, 0.04, −1.31 |
| VH296106 | 2 | 1.24 | 0.27 | 0.56, −0.56 |
| VH296116 | 2 | 0.61 | 1.70 | 0.42, −0.42 |
| VH296118 | 3 | 0.68 | 0.55 | 1.66, 0.14, −1.80 |
| VH296119 | 2 | 0.87 | −0.06 | 0.56, −0.56 |
| VH945433 | 2 | 0.59 | 1.70 | 0.37, −0.37 |
| VH945435 | 4 | 0.44 | 1.15 | 1.04, 1.73, −0.55, −2.21 |
| VH945436 | 2 | 0.68 | −0.75 | 0.48, −0.48 |
| VH945458 | 2 | 0.85 | 1.63 | 0.86, −0.86 |
| 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 |
| VH945466 | 1 | 0.91 | 2.07 | N/A |
| VH945526 | 1 | 0.54 | 1.20 | N/A |
| VH945528 | 4 | 0.43 | 1.56 | 2.69, 1.28, −0.86, −3.12 |
| VH945529 | 2 | 0.47 | −0.26 | 0.08, −0.08 |
| VH945572 | 2 | 0.72 | 1.48 | 0.25, −0.25 |
| VH945574 | 4 | 0.51 | 1.15 | 0.67, 1.45, −0.63, −1.50 |
| VH945575 | 2 | 0.72 | −0.58 | 0.39, −0.39 |
| VR552666 | 2 | 0.65 | 0.88 | 0.48, −0.48 |
| VR552668 | 4 | 0.33 | 1.73 | −0.77, 1.98, 0.47, −1.68 |
| VR552669 | 2 | 0.62 | −0.63 | 0.72, −0.72 |
| VR552676 | 1 | 0.44 | 2.02 | N/A |
| VR552678 | 4 | 0.70 | 1.24 | 2.38, 0.96, −1.06, −2.28 |
| VR552679 | 2 | 0.75 | −0.24 | 0.31, −0.31 |
| VR552681 | 1 | 0.55 | 1.95 | N/A |
| VR552683 | 4 | 0.73 | 0.67 | 2.43, 0.98, −0.87, −2.54 |
| VR552684 | 2 | 0.79 | −0.84 | 0.55, −0.55 |
| VR552771 | 1 | 0.67 | 2.65 | N/A |
| VR552773 | 3 | 0.57 | 0.99 | 2.01, 0.10, −2.11 |
| VR552774 | 2 | 0.59 | −0.10 | 0.14, −0.14 |
| VR552776 | 1 | 0.45 | 2.13 | N/A |
| VR552778 | 4 | 0.44 | 1.49 | 0.64, 1.40, 0.16, −2.21 |
| VR552779 | 2 | 0.68 | −0.56 | 0.53, −0.53 |
| VR552786 | 1 | 0.27 | 3.07 | N/A |
| VR552788 | 4 | 0.63 | 1.24 | 2.83, 1.25, −1.00, −3.09 |
| VR552789 | 2 | 0.73 | −0.51 | 0.56, −0.56 |
| VR552816 | 2 | 0.55 | 1.32 | 0.34, −0.34 |
| VR552818 | 4 | 0.59 | 1.40 | 2.97, 1.21, −1.13, −3.05 |
| VR552819 | 2 | 0.77 | −0.39 | 0.50, −0.50 |
| VR552836 | 1 | 0.40 | 3.02 | N/A |
| VR552838 | 4 | 0.76 | 1.04 | 2.54, 0.86, −1.11, −2.29 |
| VR552839 | 2 | 0.85 | −0.39 | 0.49, −0.49 |

Table 8.D. PT Item Statistics—ELA, Grade Eight

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295277 | 2 | 0.69 | 1.30 | 0.22, −0.22 |
| VH295280 | 4 | 0.87 | 1.08 | 1.95, 0.99, −0.81, −2.13 |
| VH295281 | 2 | 0.99 | −0.01 | 0.30, −0.30 |
| VH295291 | 2 | 0.61 | 1.28 | 0.33, −0.33 |
| VH295295 | 4 | 0.74 | 1.15 | 2.11, 1.06, −0.83, −2.33 |
| VH295296 | 2 | 0.78 | −0.16 | 0.37, −0.37 |
| VH295298 | 2 | 0.45 | 1.59 | 1.28, −1.28 |
| VH295302 | 4 | 0.57 | 1.03 | −0.11, 1.27, −0.10, −1.06 |
| VH295303 | 2 | 0.73 | −0.77 | −0.05, 0.05 |
| VH295355 | 2 | 0.72 | 2.04 | 0.64, −0.64 |
| VH295358 | 4 | 0.82 | 1.09 | 2.63, 0.80, −1.27, −2.16 |
| VH295359 | 2 | 0.82 | −0.11 | 0.42, −0.42 |
| VH295384 | 2 | 0.79 | 1.85 | 0.33, −0.33 |
| VH295387 | 4 | 0.93 | 0.96 | 1.94, 0.77, −0.90, −1.81 |
| VH295388 | 2 | 1.01 | −0.05 | 0.40, −0.40 |
| VH295463 | 2 | 0.89 | 1.53 | 0.19, −0.19 |
| VH295466 | 3 | 0.86 | 0.53 | 1.42, 0.24, −1.66 |
| VH295467 | 2 | 0.79 | 0.00 | 0.33, −0.33 |
| 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 | 0.50, −0.50 |
| VH295514 | 3 | 0.64 | 0.39 | 1.77, 0.32, −2.09 |
| VH295515 | 2 | 0.71 | −0.30 | 0.59, −0.59 |
| VH295517 | 2 | 0.68 | 2.17 | 1.05, −1.05 |
| VH295597 | 4 | 0.57 | 1.06 | −0.21, 1.02, 0.05, −0.85 |
| VH295598 | 2 | 0.62 | −0.91 | −0.04, 0.04 |
| VH295599 | 2 | 0.61 | 1.41 | 0.45, −0.45 |
| VH295601 | 2 | 0.85 | 1.44 | 0.41, −0.41 |
| VH295605 | 4 | 0.98 | 0.77 | 1.90, 0.74, −0.83, −1.81 |
| VH295606 | 2 | 1.05 | −0.08 | 0.45, −0.45 |
| VH295622 | 2 | 0.79 | 2.39 | 0.35, −0.35 |
| VH295625 | 4 | 0.87 | 1.01 | 2.21, 0.81, −0.68, −2.34 |
| VH295626 | 2 | 0.93 | −0.27 | 0.45, −0.45 |
| VH295765 | 2 | 0.88 | 1.36 | 0.46, −0.46 |
| VH295769 | 4 | 0.70 | 0.78 | 2.19, 1.06, −1.12, −2.13 |
| VH295770 | 2 | 0.70 | −0.49 | 0.42, −0.42 |
| VH295829 | 2 | 0.83 | 1.49 | 0.39, −0.39 |
| VH295832 | 4 | 0.96 | 1.10 | 2.24, 1.04, −0.75, −2.54 |
| VH295833 | 2 | 1.05 | −0.14 | 0.47, −0.47 |
| VH295843 | 2 | 0.82 | 1.54 | 0.04, −0.04 |
| VH295846 | 4 | 0.91 | 1.06 | 2.31, 0.96, −1.00, −2.27 |
| VH295847 | 2 | 0.85 | −0.16 | 0.51, −0.51 |
| VH295975 | 2 | 0.84 | 2.14 | 0.78, −0.78 |
| 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 |
| VH296021 | 2 | 0.53 | 1.44 | 0.07, −0.07 |
| VH296023 | 2 | 0.74 | 1.32 | 0.46, −0.46 |
| 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 | 0.67 | −0.71 | 0.23, −0.23 |
| VH296063 | 2 | 0.62 | 1.55 | 0.26, −0.26 |
| VH296095 | 2 | 0.78 | 1.35 | 0.11, −0.11 |
| VH296098 | 4 | 0.68 | 0.61 | 1.29, 0.66, −0.55, −1.40 |
| VH296099 | 2 | 0.69 | −0.83 | 0.05, −0.05 |
| VH945496 | 2 | 0.63 | 1.52 | 0.54, −0.54 |
| VH945498 | 4 | 0.39 | 1.50 | 1.59, 1.96, −0.64, −2.91 |
| VH945499 | 2 | 0.47 | −0.05 | −0.04, 0.04 |
| VH945501 | 1 | 0.30 | 4.68 | N/A |
| VH945503 | 4 | 0.31 | 1.93 | 1.84, 2.69, 0.08, −4.61 |
| VH945504 | 2 | 0.24 | −0.97 | −2.32, 2.32 |
| VH945551 | 1 | 0.60 | 2.35 | N/A |
| VH945553 | 4 | 0.34 | 1.03 | 0.31, 1.53, 0.15, −1.99 |
| VH945554 | 2 | 0.73 | −0.55 | 0.07, −0.07 |
| VH945592 | 1 | 0.49 | 2.49 | N/A |
| VH945594 | 4 | 0.32 | 1.17 | 0.69, 0.70, 0.26, −1.65 |
| VH945595 | 2 | 0.70 | −0.72 | 0.01, −0.01 |
| VR552656 | 1 | 0.37 | 0.70 | N/A |
| VR552658 | 4 | 0.67 | 0.78 | 2.26, 1.21, −0.62, −2.84 |
| VR552659 | 2 | 0.81 | −0.66 | 0.46, −0.46 |
| VR552846 | 1 | 0.69 | 2.89 | N/A |
| VR552848 | 4 | 0.50 | 0.46 | 0.18, 1.36, 0.17, −1.71 |
| VR552849 | 2 | 0.63 | −0.70 | 0.25, −0.25 |
| VR552851 | 1 | 0.59 | 3.11 | N/A |
| VR552853 | 4 | 0.75 | 0.72 | 2.03, 1.47, −0.55, −2.95 |
| VR552854 | 2 | 0.72 | −1.14 | −0.13, 0.13 |
| VR552886 | 1 | 0.48 | 2.97 | N/A |
| VR552888 | 4 | 0.73 | 1.18 | 2.21, 1.52, −1.08, −2.66 |
| VR552889 | 2 | 0.79 | −0.40 | 0.23, −0.23 |
| VR552903 | 4 | 0.66 | 1.35 | 2.23, 1.35, −0.99, −2.59 |
| VR552904 | 2 | 0.75 | −0.08 | 0.29, −0.29 |
| VR552906 | 2 | 0.58 | 1.84 | 0.56, −0.56 |
| VR552908 | 4 | 0.60 | 1.13 | 2.38, 1.15, −0.77, −2.76 |
| VR552909 | 2 | 0.70 | −0.23 | 0.35, −0.35 |
| VR680053 | 2 | 0.85 | 1.38 | 0.65, −0.65 |

Table 8.D. PT Item Statistics—ELA, Grade Eleven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| VH295243 | 2 | 0.87 | 1.51 | 0.68, −0.68 |
| VH295246 | 4 | 0.59 | 1.50 | 2.42, 0.67, −1.00, −2.09 |
| VH295247 | 2 | 0.75 | 1.02 | 0.26, −0.26 |
| VH295251 | 1 | 0.34 | 0.69 | N/A |
| VH295253 | 4 | 0.44 | 1.73 | 2.61, 1.03, −0.85, −2.78 |
| VH295254 | 2 | 0.52 | 0.95 | −0.21, 0.21 |
| 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 |
| VH295362 | 2 | 0.54 | 3.10 | 0.44, −0.44 |
| VH295366 | 4 | 0.49 | 1.90 | 2.49, 0.74, −0.62, −2.61 |
| VH295367 | 2 | 0.64 | 1.22 | 0.38, −0.38 |
| VH295390 | 2 | 0.62 | 1.66 | 0.03, −0.03 |
| VH295392 | 4 | 0.51 | 1.83 | 2.68, 0.93, −0.70, −2.91 |
| VH295393 | 2 | 0.56 | 1.09 | −0.01, 0.01 |
| VH295499 | 2 | 0.57 | 1.95 | 0.10, −0.10 |
| VH295502 | 4 | 0.55 | 2.17 | 2.30, 0.71, −0.75, −2.25 |
| VH295503 | 2 | 0.60 | 1.30 | −0.12, 0.12 |
| VH295547 | 2 | 0.46 | 2.71 | 0.69, −0.69 |
| VH295551 | 4 | 0.43 | 1.94 | 2.81, 0.71, −1.10, −2.41 |
| VH295552 | 2 | 0.50 | 1.20 | −0.25, 0.25 |
| VH295615 | 2 | 0.64 | 2.12 | 0.27, −0.27 |
| VH295618 | 4 | 0.56 | 1.72 | 2.20, 0.84, −0.99, −2.04 |
| VH295619 | 2 | 0.61 | 1.13 | 0.09, −0.09 |
| VH295649 | 2 | 0.57 | 1.71 | 0.03, −0.03 |
| VH295653 | 4 | 0.50 | 1.76 | 2.51, 0.67, −1.05, −2.13 |
| VH295654 | 2 | 0.63 | 1.47 | 0.23, −0.23 |
| VH295697 | 2 | 0.64 | 1.50 | 0.31, −0.31 |
| VH295701 | 4 | 0.51 | 1.72 | 2.34, 1.09, −0.57, −2.86 |
| VH295702 | 2 | 0.66 | 1.01 | 0.01, −0.01 |
| VH295723 | 1 | 0.59 | 1.98 | N/A |
| VH295727 | 4 | 0.53 | 2.01 | 2.46, 1.06, −0.72, −2.80 |
| VH295728 | 2 | 0.62 | 1.09 | 0.13, −0.13 |
| VH295744 | 2 | 0.73 | 1.82 | 0.28, −0.28 |
| VH295748 | 4 | 0.56 | 1.67 | 2.05, 0.61, −0.83, −1.84 |
| VH295749 | 2 | 0.71 | 1.14 | 0.21, −0.21 |
| VH295802 | 2 | 0.71 | 1.92 | 0.62, −0.62 |
| VH295804 | 4 | 0.62 | 1.55 | 2.50, 0.64, −0.85, −2.29 |
| VH295805 | 2 | 0.75 | 1.10 | 0.56, −0.56 |
| VH295814 | 2 | 0.75 | 2.07 | 0.63, −0.63 |
| VH295817 | 4 | 0.63 | 1.64 | 2.10, 0.60, −0.86, −1.84 |
| VH295818 | 2 | 0.65 | 1.08 | 0.23, −0.23 |
| VH295885 | 4 | 0.56 | 1.54 | 2.02, 1.04, −0.81, −2.25 |
| VH295886 | 2 | 0.69 | 1.07 | 0.12, −0.12 |
| VH295887 | 2 | 0.68 | 2.15 | 1.09, −1.09 |
| VH296003 | 2 | 0.63 | 1.38 | 0.45, −0.45 |
| VH296005 | 4 | 0.48 | 1.73 | 2.52, 0.71, −0.96, −2.28 |
| VH296006 | 2 | 0.57 | 1.15 | 0.04, −0.04 |
| VH296052 | 2 | 0.64 | 2.01 | 0.21, −0.21 |
| VH296054 | 4 | 0.64 | 1.53 | 2.05, 0.83, −0.87, −2.01 |
| VH296055 | 2 | 0.70 | 0.84 | 0.25, −0.25 |
| VH945418 | 2 | 0.58 | 0.66 | 0.48, −0.48 |
| VH945420 | 4 | 0.58 | 1.06 | 2.09, 1.57, −0.83, −2.83 |
| VH945421 | 2 | 0.59 | −0.22 | −0.12, 0.12 |
| VH945468 | 2 | 0.57 | 1.34 | 0.45, −0.45 |
| VH945470 | 4 | 0.53 | 1.51 | 2.26, 1.73, −0.49, −3.51 |
| VH945471 | 2 | 0.66 | −0.04 | 0.44, −0.44 |
| VH945473 | 1 | 0.37 | 4.19 | N/A |
| VH945475 | 4 | 0.71 | 1.26 | 1.83, 1.55, −0.48, −2.90 |
| VH945476 | 2 | 0.79 | 0.01 | 0.53, −0.53 |
| VH945521 | 2 | 0.56 | 1.63 | 0.71, −0.71 |
| VH945523 | 4 | 0.62 | 1.50 | 1.86, 1.68, −0.62, −2.92 |
| VH945524 | 2 | 0.71 | 0.07 | 0.44, −0.44 |
| VH945536 | 2 | 0.49 | 1.55 | 0.46, −0.46 |
| VH945538 | 4 | 0.46 | 1.26 | 2.01, 1.90, −0.72, −3.19 |
| VH945539 | 2 | 0.49 | −0.41 | −0.69, 0.69 |
| VR552631 | 2 | 0.40 | 0.93 | 0.16, −0.16 |
| VR552633 | 4 | 0.51 | 1.53 | 2.18, 2.18, −0.97, −3.39 |
| VR552634 | 2 | 0.54 | −0.43 | −0.42, 0.42 |
| VR552671 | 2 | 0.56 | 1.26 | 0.87, −0.87 |
| VR552673 | 4 | 0.48 | 1.31 | 1.51, 1.64, 0.04, −3.20 |
| VR552674 | 2 | 0.62 | −0.23 | 0.20, −0.20 |
| VR552716 | 1 | 0.46 | 4.02 | N/A |
| VR552718 | 4 | 0.56 | 1.29 | 1.32, 1.81, −0.48, −2.65 |
| VR552719 | 2 | 0.66 | −0.08 | 0.06, −0.06 |
| VR552753 | 4 | 0.50 | 1.36 | 1.54, 1.61, −0.07, −3.09 |
| VR552754 | 2 | 0.61 | −0.09 | 0.14, −0.14 |
| VR552766 | 2 | 0.38 | 2.31 | −1.87, 1.87 |
| VR552768 | 4 | 0.55 | 1.12 | 1.92, 1.55, −0.61, −2.86 |
| VR552769 | 2 | 0.62 | −0.40 | 0.04, −0.04 |
| VR552826 | 2 | 0.52 | 1.32 | 0.59, −0.59 |
| VR552828 | 4 | 0.48 | 1.15 | 1.70, 1.68, 0.40, −3.79 |
| VR552829 | 2 | 0.58 | −0.55 | 0.12, −0.12 |
| VR552876 | 1 | 0.49 | 2.97 | N/A |
| VR552878 | 4 | 0.51 | 1.44 | 2.10, 2.27, −0.70, −3.67 |
| VR552879 | 2 | 0.65 | −0.25 | −0.15, 0.15 |
| VR680052 | 2 | 0.39 | 1.91 | −1.33, 1.33 |

Table 8.D. PT Item Statistics—Mathematics, Grade Three

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |
| 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 |
| 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 |
| 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 |
| VH299465 | 1 | 1.02 | −1.84 | N/A |
| VH299466 | 1 | 1.09 | −0.49 | N/A |
| VH299467 | 2 | 0.76 | 0.39 | −1.20, 1.20 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| VH324269 | 1 | 1.08 | −1.07 | N/A |
| VH324270 | 1 | 1.44 | −0.68 | N/A |
| VH324271 | 1 | 1.44 | −0.50 | 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 |
| VH324305 | 1 | 1.42 | −1.74 | N/A |
| VH324306 | 1 | 1.30 | −1.38 | N/A |
| VH324345 | 1 | 1.19 | −1.26 | N/A |
| VH324346 | 1 | 0.98 | −1.22 | N/A |
| VH324383 | 1 | 1.06 | −1.03 | N/A |
| VH324384 | 1 | 0.88 | −0.20 | N/A |
| 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 |
| VH945773 | 1 | 1.20 | −1.41 | N/A |
| VH945774 | 1 | 0.94 | −1.47 | N/A |
| VH945775 | 1 | 0.94 | −0.89 | N/A |
| VH945776 | 2 | 0.67 | −0.77 | −0.82, 0.82 |
| VH945777 | 3 | 0.54 | 0.18 | 0.68, 0.36, −1.04 |
| 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 |
| 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 |
| VR555289 | 1 | 1.18 | −1.26 | N/A |
| VR555290 | 2 | 0.54 | −0.47 | −1.14, 1.14 |
| VR555291 | 1 | 0.77 | −1.21 | N/A |
| VR555292 | 2 | 0.53 | −0.94 | 0.26, −0.26 |
| VR555293 | 2 | 0.51 | 0.09 | −1.18, 1.18 |
| VR680263 | 1 | 0.74 | −0.84 | N/A |
| VR680264 | 1 | 0.90 | −0.24 | N/A |
| VR680265 | 1 | 1.08 | 0.63 | N/A |
| VR680266 | 2 | 0.66 | 0.82 | −0.88, 0.88 |
| VR680267 | 1 | 0.77 | −1.09 | N/A |
| VR680294 | 2 | 0.54 | 1.03 | 0.09, −0.09 |
| VR680295 | 1 | 0.79 | −0.48 | N/A |
| VR680296 | 1 | 0.92 | −0.11 | N/A |
| VR680297 | 1 | 1.02 | −1.55 | N/A |
| VR812633 | 2 | 0.33 | 0.72 | 2.60, −2.60 |
| VR812634 | 1 | 0.74 | −2.17 | N/A |
| VR812635 | 1 | 1.13 | −1.59 | N/A |
| VR812636 | 1 | 1.14 | 0.12 | N/A |
| VR812637 | 1 | 1.07 | −1.08 | N/A |

Table 8.D. PT Item Statistics—Mathematics, Grade Four

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| VH299823 | 2 | 1.22 | 1.05 | 0.09, −0.09 |
| VH299934 | 2 | 1.23 | 0.65 | −0.06, 0.06 |
| 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 |
| VH300038 | 2 | 0.63 | 0.33 | 0.02, −0.02 |
| VH300047 | 2 | 0.71 | 0.69 | −1.88, 1.88 |
| 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 |
| 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 |
| 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 | 0.64, 0.38, −1.02 |
| 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 |
| 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 |
| VH303281 | 1 | 0.79 | −1.26 | N/A |
| VH324275 | 1 | 0.86 | −1.33 | N/A |
| VH324276 | 1 | 0.44 | 2.15 | N/A |
| VH324307 | 2 | 0.63 | 0.55 | −1.81, 1.81 |
| VH324315 | 1 | 1.09 | −1.18 | N/A |
| VH324316 | 1 | 0.88 | −1.49 | N/A |
| VH324317 | 1 | 1.01 | 0.19 | N/A |
| VH324335 | 1 | 0.66 | −0.79 | N/A |
| VH324342 | 1 | 1.05 | −0.21 | N/A |
| VH324343 | 1 | 0.73 | −1.67 | N/A |
| VH324344 | 1 | 0.95 | 0.31 | N/A |
| VH324382 | 1 | 0.65 | −0.75 | N/A |
| 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 |
| 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 |

Table 8.D. PT Item Statistics—Mathematics, Grade Five

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 | −0.07, 0.07 |
| VH299412 | 3 | 0.39 | 2.13 | −0.93, 0.67, 0.26 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| VH324334 | 1 | 0.90 | 0.73 | N/A |
| VH324336 | 1 | 0.73 | 1.24 | N/A |
| VH324337 | 1 | 1.16 | 0.98 | N/A |
| VH324338 | 1 | 1.26 | 0.83 | N/A |
| VH324339 | 1 | 0.98 | −0.39 | N/A |
| VH324340 | 1 | 0.52 | 2.12 | N/A |
| VH324347 | 1 | 1.09 | 0.92 | N/A |
| VH324348 | 1 | 1.11 | 0.82 | N/A |
| VH324350 | 1 | 0.69 | 1.23 | N/A |
| VH324351 | 1 | 1.14 | 1.17 | N/A |
| VH324376 | 1 | 0.96 | 0.51 | N/A |
| VH324377 | 1 | 0.46 | 2.05 | N/A |
| 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 |
| 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 |
| 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 |
| 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 |
| VR555295 | 1 | 0.39 | −0.79 | N/A |
| VR555296 | 2 | 0.70 | −0.45 | 0.18, −0.18 |
| VR555297 | 1 | 0.97 | 0.85 | N/A |
| VR555298 | 2 | 0.50 | 0.85 | 0.39, −0.39 |
| VR555300 | 1 | 0.70 | −1.12 | N/A |
| VR555301 | 1 | 1.50 | 1.30 | N/A |
| VR555302 | 1 | 1.09 | 0.47 | N/A |
| VR555303 | 1 | 0.74 | 0.64 | N/A |
| VR555304 | 2 | 0.29 | 0.31 | −1.84, 1.84 |
| VR555311 | 1 | 0.73 | −1.31 | N/A |
| VR555312 | 1 | 0.65 | −0.61 | N/A |
| VR555313 | 1 | 0.84 | 0.10 | N/A |
| VR555314 | 1 | 1.14 | 0.84 | N/A |
| VR555315 | 2 | 0.74 | 1.20 | −0.03, 0.03 |
| VR555317 | 1 | 0.88 | −0.76 | N/A |
| VR555318 | 2 | 0.72 | −0.20 | 0.70, −0.70 |
| VR555319 | 2 | 0.54 | 0.98 | −0.76, 0.76 |
| VR555320 | 1 | 1.02 | −0.24 | N/A |
| VR680256 | 2 | 0.64 | 1.01 | −1.18, 1.18 |
| VR680257 | 1 | 0.86 | −0.02 | N/A |
| VR680258 | 3 | 0.44 | 1.38 | −0.52, −0.65, 1.17 |
| VR680259 | 1 | 0.89 | −1.27 | N/A |
| VR680260 | 1 | 0.96 | −0.59 | N/A |
| VR812648 | 2 | 0.56 | −0.63 | −0.85, 0.85 |
| VR812649 | 2 | 0.52 | 0.52 | −1.04, 1.04 |
| VR812650 | 2 | 0.35 | −0.93 | −0.96, 0.96 |
| VR812651 | 1 | 0.59 | −1.66 | N/A |
| VR812652 | 1 | 0.76 | −1.12 | N/A |
| VR812654 | 1 | 0.95 | −0.01 | N/A |
| VR812655 | 2 | 0.69 | 0.49 | 0.48, −0.48 |
| VR812656 | 1 | 0.56 | −2.04 | N/A |
| VR812657 | 1 | 1.02 | −0.01 | N/A |
| VR812658 | 2 | 0.54 | −0.11 | −0.65, 0.65 |
| VR812659 | 2 | 0.56 | 0.81 | −0.50, 0.50 |
| VR812661 | 1 | 1.02 | 0.02 | N/A |
| VR812662 | 1 | 0.95 | −0.18 | N/A |
| VR812663 | 1 | 0.64 | −2.14 | N/A |
| VR812664 | 2 | 0.63 | 0.18 | 0.47, −0.47 |
| VR812665 | 2 | 0.63 | 0.99 | 0.17, −0.17 |
| VR812666 | 2 | 0.75 | 0.31 | 0.55, −0.55 |

Table 8.D. PT Item Statistics—Mathematics, Grade Six

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| VH300109 | 2 | 0.62 | 1.72 | −0.59, 0.59 |
| 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 |
| 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 |
| 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 |
| 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 |
| VH303296 | 1 | 0.81 | 0.13 | N/A |
| VH324157 | 1 | 0.86 | −0.64 | N/A |
| VH324158 | 1 | 0.91 | −0.21 | N/A |
| VH324159 | 1 | 0.76 | 0.26 | N/A |
| VH324160 | 1 | 0.67 | −0.87 | N/A |
| 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 |
| 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 |
| 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 |
| VH953698 | 2 | 0.82 | 1.80 | −0.32, 0.32 |
| 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 |
| VR680811 | 1 | 0.72 | 0.57 | N/A |
| VR680812 | 1 | 0.87 | 0.96 | N/A |
| VR680813 | 2 | 0.62 | 3.06 | 0.06, −0.06 |
| VR680814 | 2 | 0.58 | 2.06 | 1.33, −1.33 |
| VR680815 | 1 | 0.79 | 0.91 | N/A |
| VR680816 | 1 | 0.84 | 1.39 | N/A |
| VR680818 | 1 | 0.45 | −0.33 | N/A |
| VR680819 | 1 | 0.55 | −0.89 | N/A |
| VR680820 | 1 | 0.55 | −0.90 | N/A |
| VR680821 | 2 | 0.49 | 0.30 | −1.25, 1.25 |
| VR680822 | 2 | 0.73 | 1.44 | −1.04, 1.04 |
| VR680823 | 2 | 0.51 | 1.90 | −2.84, 2.84 |

Table 8.D. PT Item Statistics—Mathematics, Grade Seven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item ID** | **Score Points** | **A** | **B** | **D** |
| 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 |
| VH299073 | 1 | 0.75 | −0.86 | N/A |
| VH299074 | 1 | 1.02 | 1.88 | N/A |
| VH299212 | 1 | 1.68 | 2.54 | N/A |
| VH299227 | 2 | 0.53 | 3.75 | 1.14, −1.14 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| VH300257 | 1 | 0.41 | 0.59 | N/A |
| VH300259 | 2 | 0.82 | 1.17 | −0.05, 0.05 |
| 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 |
| 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 |
| VH324172 | 1 | 0.79 | 1.20 | N/A |
| VH324173 | 1 | 0.83 | −0.57 | N/A |
| VH324199 | 1 | 0.73 | 0.40 | N/A |
| VH324200 | 1 | 0.85 | −0.57 | N/A |
| VH324201 | 1 | 0.92 | 1.98 | N/A |
| VR555306 | 1 | 0.54 | −0.24 | N/A |
| VR555307 | 2 | 0.53 | −0.19 | 1.44, −1.44 |
| VR555308 | 1 | 0.59 | 0.12 | N/A |
| VR555309 | 1 | 0.78 | 1.33 | N/A |
| VR680289 | 1 | 0.93 | 2.02 | N/A |
| VR680290 | 3 | 0.50 | 2.40 | −1.49, 0.68, 0.82 |
| VR680291 | 1 | 0.85 | 0.85 | N/A |
| VR680292 | 2 | 0.59 | 2.94 | −1.02, 1.02 |

Table 8.D. PT Item Statistics—Mathematics, Grade Eight

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |
| VH299669 | 2 | 1.08 | 2.31 | 0.28, −0.28 |
| VH299670 | 1 | 0.71 | 1.24 | N/A |
| 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 |
| VH299741 | 2 | 0.54 | 1.49 | −0.42, 0.42 |
| VH299742 | 1 | 0.86 | 0.85 | 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 |
| 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 |
| 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 |
| VH324168 | 1 | 0.92 | 1.54 | N/A |
| VH324169 | 1 | 0.73 | 2.21 | N/A |
| VH324249 | 1 | 0.98 | 1.74 | N/A |
| VH945760 | 1 | 0.77 | 0.96 | N/A |
| VH945761 | 1 | 0.53 | −0.18 | N/A |
| VH945762 | 1 | 0.68 | 2.52 | N/A |
| 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 |
| VR680269 | 1 | 0.64 | −0.79 | N/A |
| VR680270 | 1 | 0.37 | −1.32 | N/A |
| VR680271 | 2 | 0.40 | −0.12 | −0.09, 0.09 |
| VR680272 | 1 | 0.67 | 0.59 | N/A |
| VR680273 | 2 | 0.40 | 1.22 | 1.49, −1.49 |
| VR680300 | 1 | 0.75 | −0.32 | N/A |
| VR680301 | 3 | 0.37 | 0.35 | 0.74, 0.62, −1.36 |
| VR680302 | 3 | 0.38 | 0.26 | −1.67, 1.23, 0.44 |
| VR680303 | 2 | 0.42 | 0.41 | −0.38, 0.38 |
| VR680304 | 2 | 0.43 | −0.29 | −0.57, 0.57 |
| VR812701 | 1 | 0.54 | 0.91 | N/A |
| VR812702 | 2 | 0.59 | 1.46 | −1.24, 1.24 |
| VR812703 | 1 | 0.58 | 1.25 | N/A |
| VR812704 | 2 | 0.48 | 3.10 | −0.95, 0.95 |

Table 8.D. PT Item Statistics—Mathematics, Grade Eleven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| VR555283 | 1 | 0.55 | −0.33 | N/A |
| VR555284 | 1 | 0.75 | 1.09 | N/A |
| VR555285 | 2 | 0.53 | 1.00 | 0.58, −0.58 |
| VR555286 | 1 | 0.78 | 1.96 | N/A |
| VR555287 | 2 | 0.46 | 1.51 | 0.11, −0.11 |
| VR680317 | 2 | 0.66 | 2.00 | 0.40, −0.40 |
| VR680318 | 2 | 0.53 | 2.36 | −1.19, 1.19 |
| VR680319 | 1 | 1.09 | 1.12 | N/A |
| VR680320 | 1 | 0.94 | 2.08 | N/A |
| VR680321 | 1 | 0.73 | −0.71 | N/A |

### Appendix 8.E: Response Time Analyses

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade Level** | **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 | 100,590 | 108.444 | 87.422 | 0.940 | 1,350.580 | 9.042 | 28.730 | 49.377 | 84.897 | 141.418 | 215.593 | 427.642 |
| 3 | Q 2 | 100,008 | 141.835 | 95.034 | 3.912 | 1,941.210 | 26.983 | 53.788 | 78.177 | 118.083 | 177.861 | 256.403 | 488.007 |
| 3 | Q 3 | 101,792 | 153.583 | 95.675 | 11.618 | 1,748.152 | 36.703 | 64.512 | 89.458 | 130.081 | 190.362 | 268.597 | 497.125 |
| 3 | Q 4 | 101,174 | 160.425 | 95.114 | 18.398 | 1,468.157 | 43.370 | 71.427 | 96.608 | 137.755 | 196.627 | 274.490 | 507.610 |
| 4 | Q 1 | 103,311 | 125.044 | 98.907 | 1.127 | 1,557.148 | 10.405 | 35.027 | 58.929 | 98.465 | 161.873 | 246.302 | 485.342 |
| 4 | Q 2 | 103,145 | 159.582 | 105.072 | 1.823 | 1,786.845 | 31.967 | 61.955 | 88.895 | 133.120 | 199.910 | 286.938 | 543.167 |
| 4 | Q 3 | 103,301 | 170.564 | 105.013 | 5.050 | 1,713.753 | 42.247 | 72.607 | 99.888 | 145.038 | 210.580 | 297.743 | 548.655 |
| 4 | Q 4 | 103,711 | 174.984 | 102.361 | 16.857 | 2,266.797 | 48.338 | 79.607 | 107.200 | 150.612 | 213.132 | 296.315 | 547.458 |
| 5 | Q 1 | 103,854 | 124.249 | 99.575 | 1.127 | 1,732.058 | 9.260 | 35.302 | 59.092 | 97.788 | 159.373 | 243.122 | 487.290 |
| 5 | Q 2 | 104,995 | 161.172 | 105.301 | 5.938 | 1,638.487 | 33.805 | 63.910 | 90.468 | 134.337 | 201.488 | 289.412 | 539.750 |
| 5 | Q 3 | 104,695 | 170.195 | 104.252 | 5.202 | 1,783.408 | 42.738 | 73.103 | 100.365 | 144.507 | 209.628 | 296.072 | 545.678 |
| 5 | Q 4 | 104,854 | 172.418 | 99.490 | 16.107 | 1,735.502 | 49.247 | 79.783 | 106.653 | 149.058 | 209.438 | 289.932 | 534.808 |
| 6 | Q 1 | 105,092 | 129.177 | 100.301 | 1.427 | 2,442.455 | 10.837 | 39.538 | 64.844 | 103.588 | 163.295 | 247.278 | 496.990 |
| 6 | Q 2 | 103,736 | 171.917 | 111.857 | 8.067 | 2,258.293 | 39.497 | 71.928 | 98.889 | 142.823 | 211.783 | 304.945 | 573.840 |
| 6 | Q 3 | 106,272 | 187.551 | 113.607 | 20.633 | 2,112.518 | 51.823 | 85.092 | 113.161 | 158.311 | 229.303 | 321.722 | 602.533 |
| 6 | Q 4 | 105,271 | 194.404 | 109.721 | 14.920 | 2,079.728 | 61.660 | 95.273 | 123.045 | 166.778 | 234.227 | 323.653 | 597.948 |
| 7 | Q 1 | 106,025 | 109.837 | 83.087 | 1.408 | 1,471.832 | 8.515 | 33.037 | 55.850 | 89.868 | 139.618 | 208.062 | 415.762 |
| 7 | Q 2 | 105,669 | 148.787 | 93.098 | 2.805 | 1,708.850 | 34.777 | 63.800 | 87.685 | 125.428 | 183.145 | 260.850 | 490.017 |
| 7 | Q 3 | 106,387 | 166.966 | 95.803 | 14.813 | 1,689.855 | 48.448 | 79.267 | 104.215 | 143.242 | 202.110 | 280.677 | 517.270 |
| 7 | Q 4 | 106,202 | 184.570 | 96.058 | 10.742 | 1,800.367 | 61.003 | 94.357 | 121.135 | 161.273 | 221.398 | 300.387 | 530.482 |
| 8 | Q 1 | 105,471 | 107.149 | 81.370 | 0.850 | 1,554.745 | 6.323 | 31.200 | 54.010 | 87.883 | 137.132 | 203.092 | 402.972 |
| 8 | Q 2 | 106,400 | 148.744 | 93.600 | 4.762 | 2,244.083 | 33.925 | 63.296 | 88.322 | 125.614 | 182.232 | 259.504 | 485.865 |
| 8 | Q 3 | 105,516 | 168.235 | 96.051 | 14.087 | 2,700.010 | 49.207 | 80.433 | 106.141 | 144.826 | 203.408 | 281.873 | 507.603 |
| 8 | Q 4 | 107,286 | 188.572 | 100.941 | 20.058 | 2,958.300 | 62.435 | 97.123 | 123.758 | 164.423 | 225.310 | 307.237 | 547.583 |
| 11 | Q 1 | 108,550 | 81.704 | 63.825 | 0.782 | 1,255.907 | 3.187 | 19.008 | 38.495 | 67.924 | 107.940 | 157.107 | 306.920 |
| 11 | Q 2 | 107,822 | 125.819 | 73.296 | 1.432 | 1,359.963 | 28.328 | 54.912 | 77.650 | 110.511 | 154.368 | 211.875 | 390.665 |
| 11 | Q 3 | 109,620 | 148.286 | 76.617 | 16.733 | 1,341.358 | 45.113 | 75.015 | 98.832 | 132.033 | 176.505 | 238.506 | 425.468 |
| 11 | Q 4 | 109,252 | 161.498 | 76.854 | 23.755 | 1,354.960 | 60.012 | 90.497 | 113.368 | 144.260 | 187.646 | 251.010 | 444.327 |

Table 8.E. Total Testing Time (In Minutes) at Each Ability Level—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade Level** | **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 | 99,337 | 66.035 | 50.284 | 0.268 | 1,039.477 | 8.740 | 22.110 | 34.023 | 53.032 | 82.479 | 123.322 | 252.620 |
| 3 | Q 2 | 99,279 | 80.813 | 53.227 | 0.765 | 868.932 | 19.498 | 33.792 | 46.373 | 66.708 | 98.765 | 143.395 | 281.623 |
| 3 | Q 3 | 100,372 | 85.178 | 55.601 | 0.337 | 1,015.823 | 22.783 | 37.094 | 49.695 | 70.278 | 102.928 | 149.527 | 294.272 |
| 3 | Q 4 | 100,509 | 84.653 | 56.297 | 1.087 | 1,170.663 | 23.240 | 37.088 | 49.315 | 69.430 | 101.486 | 148.608 | 302.362 |
| 4 | Q 1 | 101,352 | 70.662 | 52.420 | 0.108 | 1,178.995 | 9.280 | 24.470 | 37.312 | 57.265 | 87.573 | 131.170 | 269.177 |
| 4 | Q 2 | 102,327 | 85.311 | 57.173 | 0.182 | 1,230.968 | 20.832 | 35.947 | 48.990 | 70.198 | 103.403 | 151.313 | 302.397 |
| 4 | Q 3 | 102,095 | 88.962 | 58.249 | 0.402 | 1,170.687 | 24.077 | 38.965 | 52.340 | 73.665 | 107.235 | 155.007 | 309.823 |
| 4 | Q 4 | 103,094 | 87.488 | 54.806 | 0.180 | 974.345 | 25.097 | 39.860 | 52.578 | 73.188 | 105.025 | 150.327 | 294.583 |
| 5 | Q 1 | 102,705 | 76.908 | 59.321 | 0.185 | 1,247.877 | 7.868 | 24.940 | 39.745 | 62.083 | 95.957 | 144.120 | 301.087 |
| 5 | Q 2 | 103,290 | 92.702 | 64.695 | 0.180 | 1,302.795 | 20.603 | 37.245 | 51.928 | 75.669 | 112.842 | 166.240 | 336.795 |
| 5 | Q 3 | 103,738 | 100.486 | 67.276 | 0.128 | 1,261.885 | 26.120 | 43.123 | 58.192 | 82.438 | 120.958 | 177.117 | 362.373 |
| 5 | Q 4 | 103,365 | 104.683 | 66.698 | 0.203 | 1,251.072 | 29.750 | 47.267 | 62.473 | 87.182 | 125.347 | 180.572 | 362.015 |
| 6 | Q 1 | 102,907 | 79.526 | 56.462 | 0.323 | 1,066.260 | 8.913 | 28.158 | 43.835 | 66.438 | 98.950 | 144.040 | 287.682 |
| 6 | Q 2 | 103,425 | 94.537 | 60.856 | 0.097 | 1,185.953 | 23.887 | 42.002 | 56.515 | 79.327 | 114.022 | 162.332 | 320.788 |
| 6 | Q 3 | 104,006 | 99.575 | 62.249 | 0.737 | 1,184.408 | 28.695 | 46.190 | 60.895 | 83.850 | 118.707 | 169.010 | 329.728 |
| 6 | Q 4 | 104,206 | 105.509 | 62.629 | 0.310 | 1,261.108 | 33.073 | 51.200 | 66.052 | 89.748 | 125.372 | 175.705 | 342.428 |
| 7 | Q 1 | 103,984 | 59.997 | 41.966 | 0.245 | 768.863 | 5.210 | 20.238 | 32.993 | 50.828 | 75.721 | 108.418 | 212.062 |
| 7 | Q 2 | 103,799 | 70.050 | 42.654 | 0.153 | 825.727 | 16.338 | 31.083 | 42.605 | 59.870 | 85.237 | 119.507 | 226.450 |
| 7 | Q 3 | 104,392 | 75.064 | 43.512 | 0.198 | 814.398 | 21.702 | 35.505 | 46.983 | 64.618 | 90.607 | 125.323 | 233.433 |
| 7 | Q 4 | 105,378 | 81.005 | 44.565 | 0.203 | 786.887 | 25.645 | 40.335 | 52.342 | 70.750 | 97.205 | 131.320 | 242.900 |
| 8 | Q 1 | 103,748 | 61.316 | 44.818 | 0.410 | 1,264.543 | 4.318 | 19.060 | 32.608 | 51.555 | 78.043 | 113.140 | 219.298 |
| 8 | Q 2 | 105,045 | 72.231 | 45.290 | 0.150 | 1,076.213 | 15.442 | 30.950 | 43.235 | 61.517 | 88.435 | 124.737 | 236.117 |
| 8 | Q 3 | 104,147 | 81.067 | 47.607 | 0.318 | 1,044.577 | 22.647 | 38.262 | 50.893 | 69.792 | 97.685 | 135.090 | 256.717 |
| 8 | Q 4 | 104,685 | 93.586 | 51.970 | 0.133 | 2,444.493 | 30.173 | 47.103 | 60.917 | 81.647 | 111.615 | 151.655 | 283.403 |
| 11 | Q 1 | 106,185 | 47.754 | 37.933 | 0.070 | 1,230.050 | 2.453 | 11.392 | 22.908 | 39.985 | 62.263 | 90.368 | 183.648 |
| 11 | Q 2 | 106,835 | 61.600 | 39.446 | 0.622 | 1,665.087 | 9.303 | 24.565 | 36.598 | 53.473 | 76.212 | 106.160 | 204.155 |
| 11 | Q 3 | 107,747 | 72.584 | 41.219 | 0.275 | 910.307 | 17.910 | 33.663 | 45.858 | 63.692 | 88.318 | 120.122 | 224.760 |
| 11 | Q 4 | 106,936 | 83.682 | 43.148 | 0.718 | 1,082.160 | 26.678 | 43.693 | 56.474 | 74.540 | 99.603 | 131.915 | 239.837 |

Table 8.E. CAT Testing Time (In Minutes) at Each Ability Level—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade Level** | **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 | 100,590 | 38.188 | 27.483 | 0.002 | 501.987 | 4.538 | 12.490 | 20.520 | 32.081 | 48.017 | 69.790 | 137.862 |
| 3 | Q 2 | 100,008 | 49.381 | 29.344 | 0.440 | 534.983 | 12.577 | 22.930 | 30.965 | 42.498 | 59.323 | 82.585 | 158.812 |
| 3 | Q 3 | 101,792 | 51.860 | 29.762 | 4.073 | 556.240 | 16.752 | 25.978 | 33.352 | 44.560 | 61.303 | 85.043 | 164.365 |
| 3 | Q 4 | 101,174 | 49.880 | 29.645 | 5.060 | 602.230 | 17.320 | 25.343 | 31.997 | 42.310 | 58.185 | 81.648 | 167.052 |
| 4 | Q 1 | 103,311 | 43.762 | 30.078 | 0.513 | 788.947 | 4.915 | 15.257 | 24.598 | 37.302 | 54.728 | 78.398 | 151.520 |
| 4 | Q 2 | 103,145 | 54.421 | 32.101 | 1.235 | 672.573 | 14.298 | 25.772 | 34.240 | 46.812 | 65.255 | 90.885 | 172.638 |
| 4 | Q 3 | 103,301 | 54.909 | 31.860 | 1.415 | 764.020 | 17.613 | 27.393 | 35.297 | 47.060 | 64.958 | 90.278 | 172.572 |
| 4 | Q 4 | 103,711 | 51.692 | 30.494 | 0.825 | 677.493 | 17.963 | 26.277 | 33.267 | 44.072 | 60.398 | 84.065 | 166.595 |
| 5 | Q 1 | 103,854 | 45.317 | 31.332 | 0.020 | 541.273 | 4.570 | 16.327 | 26.067 | 38.697 | 56.148 | 79.940 | 158.667 |
| 5 | Q 2 | 104,995 | 55.146 | 31.933 | 0.225 | 752.233 | 15.497 | 26.625 | 35.053 | 47.505 | 65.753 | 91.372 | 174.387 |
| 5 | Q 3 | 104,695 | 54.772 | 31.285 | 0.027 | 677.472 | 18.078 | 27.478 | 35.308 | 47.022 | 64.683 | 89.522 | 172.998 |
| 5 | Q 4 | 104,854 | 50.966 | 29.344 | 3.213 | 922.237 | 18.193 | 26.330 | 33.087 | 43.646 | 59.615 | 82.702 | 162.897 |
| 6 | Q 1 | 105,092 | 59.692 | 40.339 | 1.085 | 792.500 | 5.838 | 20.638 | 33.588 | 51.103 | 75.249 | 107.512 | 203.263 |
| 6 | Q 2 | 103,736 | 74.179 | 42.628 | 0.730 | 1,024.080 | 20.142 | 35.263 | 46.779 | 64.140 | 89.616 | 124.205 | 228.485 |
| 6 | Q 3 | 106,272 | 75.908 | 41.632 | 2.910 | 899.085 | 24.720 | 38.642 | 49.453 | 65.998 | 90.478 | 123.352 | 228.930 |
| 6 | Q 4 | 105,271 | 72.202 | 37.859 | 1.113 | 820.922 | 26.478 | 38.883 | 48.490 | 63.022 | 84.737 | 114.992 | 213.283 |
| 7 | Q 1 | 106,025 | 52.519 | 36.836 | 0.070 | 1,029.900 | 4.163 | 16.679 | 28.690 | 44.763 | 66.740 | 96.230 | 182.913 |
| 7 | Q 2 | 105,669 | 64.643 | 37.073 | 1.705 | 869.078 | 15.988 | 30.062 | 40.720 | 56.032 | 78.493 | 108.568 | 198.147 |
| 7 | Q 3 | 106,387 | 66.378 | 34.646 | 1.038 | 657.280 | 21.750 | 34.292 | 43.977 | 58.292 | 79.065 | 107.232 | 193.322 |
| 7 | Q 4 | 106,202 | 67.262 | 32.483 | 1.828 | 659.948 | 25.368 | 37.215 | 46.427 | 59.828 | 78.752 | 104.765 | 186.715 |
| 8 | Q 1 | 105,471 | 51.144 | 36.512 | 0.125 | 803.163 | 3.032 | 15.420 | 27.387 | 43.510 | 65.235 | 94.048 | 184.130 |
| 8 | Q 2 | 106,400 | 63.296 | 37.143 | 1.095 | 924.758 | 15.241 | 28.998 | 39.565 | 54.683 | 76.837 | 107.000 | 197.060 |
| 8 | Q 3 | 105,516 | 65.361 | 34.298 | 6.078 | 943.212 | 21.195 | 33.567 | 43.322 | 57.352 | 77.755 | 105.805 | 190.525 |
| 8 | Q 4 | 107,286 | 66.819 | 32.809 | 3.895 | 1,158.762 | 25.427 | 37.165 | 46.200 | 59.304 | 78.042 | 104.135 | 185.053 |
| 11 | Q 1 | 108,550 | 41.537 | 31.132 | 0.232 | 611.082 | 1.993 | 9.533 | 20.343 | 35.779 | 54.942 | 77.975 | 148.665 |
| 11 | Q 2 | 107,822 | 56.692 | 30.514 | 1.250 | 719.745 | 13.183 | 26.710 | 36.870 | 50.965 | 68.857 | 92.060 | 162.200 |
| 11 | Q 3 | 109,620 | 61.217 | 28.617 | 3.003 | 596.873 | 20.663 | 33.248 | 42.722 | 55.757 | 72.497 | 94.435 | 161.033 |
| 11 | Q 4 | 109,252 | 62.371 | 26.123 | 0.873 | 650.342 | 25.750 | 37.297 | 45.652 | 57.248 | 72.385 | 92.263 | 154.842 |

Table 8.E. CAT Testing Time (In Minutes) at Each Ability Level—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade Level** | **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 | 99,337 | 35.188 | 26.610 | 0.043 | 623.893 | 4.633 | 12.125 | 18.528 | 28.235 | 43.467 | 65.937 | 133.090 |
| 3 | Q 2 | 99,279 | 42.686 | 28.636 | 0.055 | 608.082 | 10.300 | 18.010 | 24.397 | 34.968 | 51.848 | 76.300 | 149.237 |
| 3 | Q 3 | 100,372 | 45.143 | 30.466 | 0.045 | 870.915 | 11.983 | 19.543 | 25.985 | 36.828 | 54.412 | 80.052 | 158.617 |
| 3 | Q 4 | 100,509 | 45.332 | 31.969 | 0.057 | 1,067.302 | 12.343 | 19.435 | 25.703 | 36.463 | 54.215 | 80.807 | 168.378 |
| 4 | Q 1 | 101,352 | 37.134 | 27.604 | 0.028 | 700.308 | 5.158 | 13.207 | 19.850 | 29.913 | 45.963 | 68.640 | 141.360 |
| 4 | Q 2 | 102,327 | 44.386 | 30.321 | 0.025 | 719.168 | 10.807 | 18.672 | 25.310 | 36.208 | 53.742 | 79.316 | 158.373 |
| 4 | Q 3 | 102,095 | 47.693 | 32.020 | 0.065 | 660.632 | 12.828 | 20.745 | 27.652 | 39.025 | 57.400 | 84.147 | 166.452 |
| 4 | Q 4 | 103,094 | 48.738 | 31.442 | 0.065 | 641.095 | 13.775 | 21.862 | 28.897 | 40.252 | 58.412 | 84.730 | 167.928 |
| 5 | Q 1 | 102,705 | 38.129 | 29.379 | 0.030 | 572.882 | 3.902 | 12.595 | 19.860 | 30.737 | 47.538 | 70.981 | 146.842 |
| 5 | Q 2 | 103,290 | 44.482 | 30.841 | 0.027 | 692.640 | 10.035 | 18.193 | 25.160 | 36.357 | 54.031 | 79.473 | 160.377 |
| 5 | Q 3 | 103,738 | 48.198 | 31.782 | 0.037 | 641.962 | 12.860 | 21.273 | 28.382 | 39.810 | 57.840 | 83.918 | 167.983 |
| 5 | Q 4 | 103,365 | 51.015 | 31.738 | 0.035 | 729.722 | 15.370 | 23.892 | 31.177 | 42.798 | 60.642 | 86.412 | 171.142 |
| 6 | Q 1 | 102,907 | 42.992 | 31.260 | 0.040 | 910.022 | 4.593 | 14.960 | 23.500 | 35.705 | 53.492 | 78.123 | 158.013 |
| 6 | Q 2 | 103,425 | 48.379 | 31.735 | 0.042 | 758.160 | 11.897 | 21.150 | 28.672 | 40.515 | 58.358 | 83.463 | 167.803 |
| 6 | Q 3 | 104,006 | 48.876 | 30.560 | 0.020 | 672.598 | 14.187 | 22.730 | 29.820 | 41.164 | 58.403 | 82.713 | 163.533 |
| 6 | Q 4 | 104,206 | 50.149 | 29.942 | 0.030 | 747.853 | 15.268 | 23.983 | 31.337 | 42.736 | 59.827 | 83.552 | 163.370 |
| 7 | Q 1 | 103,984 | 38.047 | 27.430 | 0.027 | 502.167 | 2.567 | 11.823 | 20.392 | 32.122 | 48.293 | 69.937 | 137.737 |
| 7 | Q 2 | 103,799 | 43.259 | 26.939 | 0.030 | 534.422 | 9.095 | 18.560 | 25.962 | 37.013 | 52.905 | 74.400 | 141.248 |
| 7 | Q 3 | 104,392 | 45.290 | 26.118 | 0.027 | 626.312 | 12.773 | 21.392 | 28.477 | 39.236 | 54.733 | 75.637 | 138.570 |
| 7 | Q 4 | 105,378 | 49.378 | 26.554 | 0.045 | 518.815 | 15.585 | 24.813 | 32.273 | 43.487 | 59.243 | 79.547 | 144.073 |
| 8 | Q 1 | 103,748 | 37.956 | 28.410 | 0.033 | 808.233 | 2.278 | 10.857 | 19.823 | 31.927 | 48.543 | 70.730 | 137.867 |
| 8 | Q 2 | 105,045 | 43.096 | 27.163 | 0.035 | 820.285 | 8.832 | 18.428 | 25.727 | 36.743 | 52.720 | 74.673 | 141.143 |
| 8 | Q 3 | 104,147 | 46.519 | 26.911 | 0.030 | 637.900 | 12.820 | 22.123 | 29.338 | 40.277 | 56.142 | 77.248 | 143.843 |
| 8 | Q 4 | 104,685 | 53.333 | 28.636 | 0.030 | 1,008.726 | 17.188 | 27.054 | 35.082 | 47.167 | 63.582 | 85.710 | 155.410 |
| 11 | Q 1 | 106,185 | 27.715 | 21.553 | 0.050 | 1,006.400 | 1.587 | 6.383 | 13.442 | 23.870 | 36.453 | 51.788 | 102.903 |
| 11 | Q 2 | 106,835 | 34.551 | 20.816 | 0.040 | 849.592 | 5.447 | 14.623 | 21.495 | 30.705 | 42.565 | 57.833 | 106.790 |
| 11 | Q 3 | 107,747 | 38.819 | 20.470 | 0.050 | 444.173 | 10.613 | 19.188 | 25.593 | 34.680 | 46.775 | 62.305 | 111.988 |
| 11 | Q 4 | 106,936 | 44.666 | 22.254 | 0.042 | 801.980 | 14.978 | 23.912 | 30.667 | 40.188 | 53.044 | 69.385 | 122.767 |

Table 8.E. PT Testing Time (In Minutes) at Each Ability Level—ELA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade Level** | **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 | 25 | Q 1 | 100,590 | 70.256 | 71.397 | 0.073 | 1,326.812 | 1.638 | 10.131 | 22.537 | 48.150 | 94.607 | 156.787 | 340.395 |
| 3 | 25 | Q 2 | 100,008 | 92.453 | 78.138 | 0.315 | 1,875.015 | 6.867 | 23.020 | 40.004 | 71.303 | 120.370 | 185.923 | 383.268 |
| 3 | 25 | Q 3 | 101,792 | 101.724 | 77.884 | 0.127 | 1,634.845 | 12.392 | 30.738 | 49.454 | 81.708 | 130.477 | 195.067 | 385.815 |
| 3 | 25 | Q 4 | 101,174 | 110.544 | 76.744 | 1.030 | 1,285.120 | 18.113 | 38.823 | 58.593 | 92.222 | 139.848 | 202.868 | 389.608 |
| 4 | 27 | Q 1 | 103,311 | 81.282 | 80.830 | 0.118 | 1,279.518 | 2.090 | 13.282 | 27.977 | 56.585 | 108.260 | 177.627 | 385.495 |
| 4 | 27 | Q 2 | 103,145 | 105.161 | 85.840 | 0.190 | 1,551.178 | 9.273 | 28.258 | 47.285 | 81.960 | 136.880 | 207.932 | 424.260 |
| 4 | 27 | Q 3 | 103,301 | 115.655 | 85.135 | 0.302 | 1,505.440 | 16.237 | 37.565 | 58.170 | 94.573 | 147.490 | 218.050 | 426.493 |
| 4 | 27 | Q 4 | 103,711 | 123.292 | 82.849 | 0.517 | 1,599.830 | 21.840 | 46.075 | 67.910 | 103.705 | 154.442 | 221.215 | 424.702 |
| 5 | 27 | Q 1 | 103,854 | 78.933 | 80.242 | 0.123 | 1,335.430 | 1.610 | 12.390 | 26.640 | 54.064 | 104.897 | 174.510 | 377.920 |
| 5 | 27 | Q 2 | 104,995 | 106.026 | 85.760 | 0.247 | 1,511.062 | 9.945 | 29.188 | 48.193 | 82.707 | 138.142 | 209.178 | 416.512 |
| 5 | 27 | Q 3 | 104,695 | 115.422 | 84.262 | 0.183 | 1,445.163 | 16.448 | 38.050 | 58.555 | 94.325 | 147.402 | 215.628 | 419.122 |
| 5 | 27 | Q 4 | 104,854 | 121.452 | 80.293 | 0.110 | 1,411.947 | 22.633 | 46.545 | 67.883 | 102.883 | 151.948 | 215.780 | 409.610 |
| 6 | 20 | Q 1 | 105,092 | 69.484 | 73.331 | 0.132 | 1,912.667 | 1.483 | 11.223 | 24.318 | 47.298 | 88.438 | 153.077 | 351.915 |
| 6 | 20 | Q 2 | 103,736 | 97.738 | 83.131 | 0.182 | 1,742.645 | 9.370 | 27.613 | 44.528 | 73.829 | 124.573 | 194.308 | 409.888 |
| 6 | 20 | Q 3 | 106,272 | 111.643 | 84.079 | 0.283 | 1,467.265 | 17.343 | 38.223 | 56.888 | 88.476 | 140.871 | 210.152 | 425.445 |
| 6 | 20 | Q 4 | 105,271 | 122.203 | 82.140 | 1.437 | 1,604.273 | 25.128 | 48.792 | 68.837 | 101.225 | 151.462 | 217.893 | 428.075 |
| 7 | 29 | Q 1 | 106,025 | 57.318 | 59.533 | 0.143 | 1,084.008 | 0.963 | 8.750 | 20.252 | 40.217 | 73.455 | 124.172 | 288.150 |
| 7 | 29 | Q 2 | 105,669 | 84.144 | 69.493 | 0.175 | 1,171.080 | 7.830 | 24.357 | 39.832 | 64.935 | 106.400 | 165.530 | 345.245 |
| 7 | 29 | Q 3 | 106,387 | 100.588 | 72.535 | 0.412 | 1,566.637 | 16.402 | 36.632 | 54.128 | 81.645 | 125.638 | 184.785 | 366.817 |
| 7 | 29 | Q 4 | 106,202 | 117.307 | 73.325 | 0.695 | 1,511.277 | 25.457 | 49.705 | 69.347 | 98.963 | 145.128 | 205.265 | 383.725 |
| 8 | 29 | Q 1 | 105,471 | 56.004 | 57.215 | 0.097 | 1,222.193 | 0.663 | 7.782 | 19.418 | 40.070 | 72.742 | 121.583 | 276.255 |
| 8 | 29 | Q 2 | 106,400 | 85.448 | 69.079 | 0.128 | 1,706.208 | 7.686 | 25.477 | 41.832 | 67.465 | 107.541 | 165.377 | 335.127 |
| 8 | 29 | Q 3 | 105,516 | 102.874 | 72.252 | 0.215 | 2,073.913 | 17.738 | 38.917 | 57.089 | 84.575 | 128.100 | 186.793 | 360.378 |
| 8 | 29 | Q 4 | 107,286 | 121.754 | 77.353 | 0.412 | 2,029.177 | 27.295 | 52.785 | 72.438 | 102.554 | 149.715 | 211.078 | 396.850 |
| 11 | 29 | Q 1 | 108,550 | 40.166 | 42.148 | 0.075 | 797.490 | 0.332 | 3.905 | 11.785 | 28.462 | 54.787 | 88.284 | 199.680 |
| 11 | 29 | Q 2 | 107,822 | 69.127 | 52.317 | 0.120 | 1,076.703 | 4.645 | 19.932 | 34.908 | 57.723 | 88.000 | 130.020 | 260.308 |
| 11 | 29 | Q 3 | 109,620 | 87.069 | 56.140 | 0.143 | 1,095.002 | 14.228 | 34.895 | 51.614 | 74.900 | 105.687 | 151.714 | 292.387 |
| 11 | 29 | Q 4 | 109,252 | 99.127 | 57.657 | 0.982 | 1,029.995 | 24.888 | 47.398 | 64.073 | 85.975 | 116.590 | 165.013 | 312.913 |

Table 8.E. PT Testing Time (In Minutes) at Each Ability Level—Mathematics

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade Level** | **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 | 20 | Q 1 | 99,337 | 30.847 | 30.272 | 0.032 | 900.242 | 1.682 | 6.720 | 12.648 | 22.647 | 38.732 | 62.618 | 146.845 |
| 3 | 20 | Q 2 | 99,279 | 38.127 | 31.584 | 0.027 | 565.697 | 4.592 | 12.007 | 18.543 | 29.500 | 47.175 | 73.318 | 160.768 |
| 3 | 20 | Q 3 | 100,372 | 40.035 | 32.081 | 0.035 | 656.975 | 6.162 | 13.620 | 20.257 | 31.370 | 49.078 | 75.287 | 162.827 |
| 3 | 20 | Q 4 | 100,509 | 39.321 | 30.712 | 0.038 | 514.373 | 6.795 | 13.890 | 20.450 | 31.023 | 47.910 | 73.082 | 157.548 |
| 4 | 19 | Q 1 | 101,352 | 33.527 | 31.328 | 0.023 | 776.323 | 1.792 | 7.943 | 14.650 | 25.148 | 41.782 | 66.837 | 156.283 |
| 4 | 19 | Q 2 | 102,327 | 40.925 | 34.025 | 0.033 | 809.333 | 5.360 | 13.625 | 20.423 | 31.655 | 49.973 | 77.340 | 174.852 |
| 4 | 19 | Q 3 | 102,095 | 41.269 | 33.344 | 0.038 | 1,022.618 | 6.765 | 14.465 | 21.280 | 32.403 | 50.253 | 76.758 | 169.780 |
| 4 | 19 | Q 4 | 103,094 | 38.749 | 29.691 | 0.032 | 688.945 | 6.882 | 14.037 | 20.487 | 30.933 | 47.300 | 71.130 | 154.257 |
| 5 | 27 | Q 1 | 102,705 | 38.779 | 37.412 | 0.042 | 942.287 | 1.653 | 8.632 | 16.405 | 28.820 | 48.460 | 78.185 | 184.282 |
| 5 | 27 | Q 2 | 103,290 | 48.220 | 42.000 | 0.035 | 966.880 | 5.228 | 14.823 | 23.112 | 36.789 | 59.260 | 93.120 | 210.523 |
| 5 | 27 | Q 3 | 103,738 | 52.287 | 43.889 | 0.030 | 1,038.197 | 7.295 | 17.218 | 25.738 | 40.191 | 63.673 | 100.093 | 223.592 |
| 5 | 27 | Q 4 | 103,365 | 53.668 | 43.689 | 0.043 | 983.328 | 8.467 | 17.805 | 26.683 | 41.963 | 65.933 | 101.690 | 221.363 |
| 6 | 16 | Q 1 | 102,907 | 36.533 | 32.614 | 0.027 | 794.555 | 1.557 | 8.797 | 16.715 | 28.492 | 46.133 | 71.343 | 158.757 |
| 6 | 16 | Q 2 | 103,425 | 46.159 | 36.973 | 0.025 | 821.863 | 5.433 | 16.142 | 24.315 | 36.705 | 56.113 | 85.003 | 187.457 |
| 6 | 16 | Q 3 | 104,006 | 50.699 | 39.368 | 0.033 | 1,005.208 | 7.912 | 19.078 | 27.397 | 40.647 | 61.143 | 92.007 | 199.068 |
| 6 | 16 | Q 4 | 104,206 | 55.360 | 40.806 | 0.038 | 958.403 | 10.568 | 22.392 | 31.023 | 44.840 | 66.507 | 98.112 | 211.932 |
| 7 | 12 | Q 1 | 103,984 | 21.950 | 20.557 | 0.027 | 450.873 | 0.737 | 4.668 | 9.495 | 16.910 | 27.732 | 43.548 | 99.452 |
| 7 | 12 | Q 2 | 103,799 | 26.791 | 21.906 | 0.018 | 483.547 | 2.803 | 8.572 | 13.500 | 21.203 | 33.078 | 50.370 | 110.483 |
| 7 | 12 | Q 3 | 104,392 | 29.774 | 23.528 | 0.028 | 594.957 | 4.478 | 10.122 | 15.342 | 23.738 | 36.743 | 55.115 | 119.778 |
| 7 | 12 | Q 4 | 105,378 | 31.628 | 24.448 | 0.037 | 615.388 | 4.762 | 10.565 | 16.277 | 25.487 | 39.478 | 58.480 | 124.312 |
| 8 | 11 | Q 1 | 103,748 | 23.360 | 22.771 | 0.032 | 665.072 | 0.595 | 4.210 | 9.352 | 17.673 | 30.060 | 47.755 | 109.200 |
| 8 | 11 | Q 2 | 105,045 | 29.135 | 24.591 | 0.025 | 771.213 | 2.143 | 8.538 | 14.147 | 22.930 | 36.348 | 55.860 | 120.700 |
| 8 | 11 | Q 3 | 104,147 | 34.548 | 27.221 | 0.030 | 761.780 | 4.398 | 12.023 | 18.210 | 27.785 | 42.433 | 63.412 | 137.305 |
| 8 | 11 | Q 4 | 104,685 | 40.252 | 29.852 | 0.045 | 1,909.790 | 7.848 | 15.752 | 22.332 | 32.698 | 49.150 | 71.817 | 151.407 |
| 11 | 13 | Q 1 | 106,185 | 20.039 | 21.393 | 0.002 | 586.132 | 0.460 | 2.348 | 6.472 | 14.292 | 26.427 | 43.090 | 100.722 |
| 11 | 13 | Q 2 | 106,835 | 27.049 | 23.924 | 0.037 | 1,469.105 | 1.197 | 6.283 | 11.943 | 21.250 | 34.848 | 53.292 | 115.960 |
| 11 | 13 | Q 3 | 107,747 | 33.765 | 25.924 | 0.030 | 498.673 | 2.745 | 10.232 | 17.045 | 27.643 | 42.905 | 63.138 | 132.035 |
| 11 | 13 | Q 4 | 106,936 | 39.016 | 26.343 | 0.040 | 781.877 | 6.048 | 14.927 | 22.398 | 33.360 | 48.348 | 68.325 | 135.980 |

### Appendix 8.F: Reliability Analyses

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—ELA, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **Standard Error of Measurement (SEM)** |
| Composite Claim 1 | 12 | 1.00 | N/A | 0.70 | 0.65 |
| Composite Claim 2 | 11 | 0.72 | 1.00 | 0.78 | 0.59 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—ELA, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 12 | 1.00 | N/A | 0.70 | 0.68 |
| Composite Claim 2 | 11 | 0.73 | 1.00 | 0.77 | 0.63 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—ELA, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 12 | 1.00 | N/A | 0.70 | 0.70 |
| Composite Claim 2 | 11 | 0.74 | 1.00 | 0.79 | 0.60 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—ELA, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 14 | 1.00 | N/A | 0.76 | 0.62 |
| Composite Claim 2 | 11 | 0.75 | 1.00 | 0.80 | 0.59 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—ELA, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 14 | 1.00 | N/A | 0.72 | 0.69 |
| Composite Claim 2 | 11 | 0.75 | 1.00 | 0.81 | 0.60 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—ELA, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 14 | 1.00 | N/A | 0.76 | 0.65 |
| Composite Claim 2 | 11 | 0.75 | 1.00 | 0.80 | 0.62 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—ELA, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 14 | 1.00 | N/A | 0.74 | 0.74 |
| Composite Claim 2 | 11 | 0.75 | 1.00 | 0.81 | 0.67 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—Mathematics, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 10 | 1.00 | N/A | 0.80 | 0.52 |
| Composite Claim 2 | 9–13 | 0.80 | 1.00 | 0.82 | 0.49 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—Mathematics, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 10 | 1.00 | N/A | 0.80 | 0.54 |
| Composite Claim 2 | 9–13 | 0.80 | 1.00 | 0.82 | 0.51 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—Mathematics, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 10 | 1.00 | N/A | 0.77 | 0.64 |
| Composite Claim 2 | 9–13 | 0.78 | 1.00 | 0.78 | 0.61 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—Mathematics, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 9–10 | 1.00 | N/A | 0.80 | 0.65 |
| Composite Claim 2 | 9–13 | 0.81 | 1.00 | 0.78 | 0.66 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—Mathematics, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 9–10 | 1.00 | N/A | 0.78 | 0.73 |
| Composite Claim 2 | 9–13 | 0.80 | 1.00 | 0.75 | 0.74 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—Mathematics, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 9–10 | 1.00 | N/A | 0.76 | 0.80 |
| Composite Claim 2 | 9–13 | 0.78 | 1.00 | 0.73 | 0.85 |

Table 8.F. Reliabilities of Composite Claims and Intercorrelations—Mathematics, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **1** | **2** | **Reliability** | **SEM** |
| Composite Claim 1 | 11 | 1.00 | N/A | 0.75 | 0.83 |
| Composite Claim 2 | 9–13 | 0.76 | 1.00 | 0.68 | 0.94 |

Table 8.F. Reliabilities and SEMs by Gender

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **Male N** | **Male Reliability** | **Male SEM** | **Female N** | **Female Reliability** | **Female SEM** |
| ELA 3 | 203,439 | 0.87 | 0.42 | 195,133 | 0.87 | 0.41 |
| ELA 4 | 207,842 | 0.87 | 0.45 | 198,926 | 0.86 | 0.44 |
| ELA 5 | 209,960 | 0.88 | 0.44 | 200,966 | 0.87 | 0.44 |
| ELA 6 | 212,845 | 0.89 | 0.41 | 203,692 | 0.88 | 0.41 |
| ELA 7 | 213,736 | 0.89 | 0.44 | 204,137 | 0.88 | 0.43 |
| ELA 8 | 211,882 | 0.89 | 0.44 | 203,535 | 0.88 | 0.43 |
| ELA 11 | 217,443 | 0.89 | 0.49 | 208,704 | 0.88 | 0.48 |
| Mathematics 3 | 204,126 | 0.91 | 0.34 | 197,165 | 0.91 | 0.34 |
| Mathematics 4 | 209,382 | 0.91 | 0.36 | 202,432 | 0.90 | 0.35 |
| Mathematics 5 | 211,356 | 0.90 | 0.42 | 203,890 | 0.89 | 0.42 |
| Mathematics 6 | 210,054 | 0.90 | 0.44 | 202,536 | 0.90 | 0.44 |
| Mathematics 7 | 212,585 | 0.89 | 0.49 | 203,192 | 0.88 | 0.50 |
| Mathematics 8 | 209,643 | 0.88 | 0.55 | 201,086 | 0.88 | 0.55 |
| Mathematics 11 | 213,065 | 0.87 | 0.61 | 205,300 | 0.85 | 0.60 |

Table 8.F. Reliabilities and SEMs by Economic Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **No Economic Disadvantage N** | **No Economic Disadvantage Reliability** | **No Economic Disadvantage SEM** | **Economic Disadvantage N** | **Economic Disadvantage Reliability** | **Economic Disadvantage SEM** |
| ELA 3 | 135,218 | 0.86 | 0.41 | 263,454 | 0.86 | 0.42 |
| ELA 4 | 136,912 | 0.85 | 0.44 | 269,952 | 0.85 | 0.45 |
| ELA 5 | 139,216 | 0.85 | 0.44 | 271,825 | 0.87 | 0.43 |
| ELA 6 | 141,250 | 0.87 | 0.42 | 275,476 | 0.88 | 0.41 |
| ELA 7 | 145,809 | 0.87 | 0.43 | 272,336 | 0.87 | 0.44 |
| ELA 8 | 146,319 | 0.87 | 0.44 | 269,472 | 0.87 | 0.44 |
| ELA 11 | 161,379 | 0.88 | 0.48 | 265,704 | 0.88 | 0.48 |
| Mathematics 3 | 137,147 | 0.91 | 0.33 | 264,242 | 0.89 | 0.35 |
| Mathematics 4 | 139,637 | 0.91 | 0.34 | 272,275 | 0.89 | 0.36 |
| Mathematics 5 | 141,727 | 0.90 | 0.39 | 273,634 | 0.87 | 0.44 |
| Mathematics 6 | 140,357 | 0.90 | 0.41 | 272,418 | 0.88 | 0.46 |
| Mathematics 7 | 144,780 | 0.90 | 0.45 | 271,270 | 0.86 | 0.51 |
| Mathematics 8 | 143,461 | 0.90 | 0.51 | 267,639 | 0.84 | 0.57 |
| Mathematics 11 | 157,867 | 0.89 | 0.55 | 261,421 | 0.82 | 0.63 |

Table 8.F. Reliabilities and SEMs by Disability Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **No Disability N** | **No Disability Reliability** | **No Disability SEM** | **With Disability N** | **With Disability Reliability** | **With Disability SEM** |
| ELA 3 | 344,077 | 0.87 | 0.41 | 54,595 | 0.84 | 0.44 |
| ELA 4 | 350,320 | 0.86 | 0.44 | 56,544 | 0.83 | 0.48 |
| ELA 5 | 355,433 | 0.87 | 0.43 | 55,608 | 0.85 | 0.45 |
| ELA 6 | 363,250 | 0.88 | 0.41 | 53,476 | 0.84 | 0.43 |
| ELA 7 | 367,361 | 0.88 | 0.43 | 50,784 | 0.82 | 0.48 |
| ELA 8 | 368,287 | 0.88 | 0.43 | 47,504 | 0.82 | 0.46 |
| ELA 11 | 381,528 | 0.88 | 0.48 | 45,555 | 0.82 | 0.51 |
| Mathematics 3 | 348,588 | 0.91 | 0.33 | 52,801 | 0.89 | 0.38 |
| Mathematics 4 | 356,399 | 0.90 | 0.35 | 55,513 | 0.88 | 0.41 |
| Mathematics 5 | 360,655 | 0.89 | 0.41 | 54,706 | 0.84 | 0.49 |
| Mathematics 6 | 362,405 | 0.90 | 0.43 | 50,370 | 0.84 | 0.52 |
| Mathematics 7 | 366,636 | 0.89 | 0.48 | 49,414 | 0.79 | 0.59 |
| Mathematics 8 | 364,874 | 0.88 | 0.54 | 46,226 | 0.75 | 0.63 |
| Mathematics 11 | 375,715 | 0.87 | 0.59 | 43,573 | 0.65 | 0.72 |

**Notes:**

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

Table 8.F. Reliabilities and SEMs by Accommodations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **No Accommodations N** | **No Accommodations Reliability** | **No Accommodations SEM** | **Accommodations N** | **Accommodations Reliability** | **Accommodations SEM** |
| ELA 3 | 30,633 | 0.87 | 0.43 | 29,290 | 0.76 | 0.46 |
| ELA 4 | 27,858 | 0.87 | 0.45 | 35,578 | 0.75 | 0.49 |
| ELA 5 | 26,325 | 0.88 | 0.44 | 37,423 | 0.79 | 0.46 |
| ELA 6 | 26,075 | 0.88 | 0.41 | 36,446 | 0.79 | 0.43 |
| ELA 7 | 27,228 | 0.88 | 0.45 | 33,874 | 0.77 | 0.49 |
| ELA 8 | 27,029 | 0.88 | 0.44 | 31,607 | 0.77 | 0.47 |
| ELA 11 | 41,769 | 0.88 | 0.50 | 19,813 | 0.80 | 0.52 |
| Mathematics 3 | 37,236 | 0.91 | 0.36 | 20,865 | 0.82 | 0.41 |
| Mathematics 4 | 29,905 | 0.91 | 0.36 | 32,519 | 0.80 | 0.43 |
| Mathematics 5 | 26,401 | 0.89 | 0.43 | 36,434 | 0.75 | 0.51 |
| Mathematics 6 | 24,368 | 0.90 | 0.46 | 34,967 | 0.76 | 0.54 |
| Mathematics 7 | 25,698 | 0.88 | 0.52 | 33,917 | 0.69 | 0.61 |
| Mathematics 8 | 24,946 | 0.87 | 0.57 | 32,302 | 0.65 | 0.65 |
| Mathematics 11 | 38,069 | 0.82 | 0.66 | 21,177 | 0.57 | 0.73 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **EO N** | **EO Reliability** | **EO SEM** | **IFEP N** | **IFEP Reliability** | **IFEP SEM** |
| ELA 3 | 260,062 | 0.87 | 0.41 | 23,939 | 0.85 | 0.41 |
| ELA 4 | 259,037 | 0.86 | 0.44 | 27,127 | 0.84 | 0.44 |
| ELA 5 | 255,405 | 0.87 | 0.44 | 25,552 | 0.84 | 0.44 |
| ELA 6 | 250,867 | 0.88 | 0.41 | 16,240 | 0.84 | 0.42 |
| ELA 7 | 247,135 | 0.88 | 0.44 | 16,873 | 0.86 | 0.44 |
| ELA 8 | 239,412 | 0.88 | 0.43 | 18,021 | 0.86 | 0.44 |
| ELA 11 | 231,334 | 0.88 | 0.48 | 20,309 | 0.86 | 0.48 |
| Mathematics 3 | 258,803 | 0.91 | 0.34 | 23,886 | 0.90 | 0.33 |
| Mathematics 4 | 259,495 | 0.91 | 0.35 | 27,292 | 0.91 | 0.33 |
| Mathematics 5 | 255,567 | 0.89 | 0.41 | 25,633 | 0.90 | 0.38 |
| Mathematics 6 | 246,718 | 0.90 | 0.43 | 15,727 | 0.90 | 0.41 |
| Mathematics 7 | 244,049 | 0.89 | 0.48 | 16,398 | 0.90 | 0.44 |
| Mathematics 8 | 235,012 | 0.88 | 0.54 | 17,106 | 0.90 | 0.50 |
| Mathematics 11 | 226,279 | 0.87 | 0.59 | 19,477 | 0.90 | 0.53 |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **EL N** | **EL Reliability** | **EL SEM** | **RFEP N** | **RFEP Reliability** | **RFEP SEM** | **ADEL N** | **ADEL Reliability** | **ADEL SEM** |
| ELA 3 | 89,655 | 0.79 | 0.43 | 24,905 | 0.80 | 0.40 | 0 | N/A | N/A |
| ELA 4 | 85,311 | 0.77 | 0.46 | 35,306 | 0.80 | 0.43 | 0 | N/A | N/A |
| ELA 5 | 75,332 | 0.78 | 0.44 | 54,662 | 0.82 | 0.43 | 0 | N/A | N/A |
| ELA 6 | 67,822 | 0.78 | 0.42 | 81,715 | 0.84 | 0.40 | 0 | N/A | N/A |
| ELA 7 | 59,166 | 0.74 | 0.47 | 94,899 | 0.86 | 0.42 | 0 | N/A | N/A |
| ELA 8 | 47,830 | 0.72 | 0.46 | 110,465 | 0.86 | 0.43 | 0 | N/A | N/A |
| ELA 11 | 43,155 | 0.71 | 0.52 | 132,115 | 0.86 | 0.47 | 91 | 0.67 | 0.51 |
| Mathematics 3 | 93,661 | 0.86 | 0.36 | 24,899 | 0.88 | 0.32 | 0 | N/A | N/A |
| Mathematics 4 | 89,707 | 0.84 | 0.39 | 35,300 | 0.89 | 0.33 | 0 | N/A | N/A |
| Mathematics 5 | 79,338 | 0.78 | 0.47 | 54,690 | 0.88 | 0.39 | 0 | N/A | N/A |
| Mathematics 6 | 69,423 | 0.78 | 0.51 | 80,798 | 0.89 | 0.42 | 0 | N/A | N/A |
| Mathematics 7 | 61,633 | 0.71 | 0.58 | 93,885 | 0.88 | 0.47 | 0 | N/A | N/A |
| Mathematics 8 | 50,207 | 0.65 | 0.64 | 108,689 | 0.87 | 0.54 | 0 | N/A | N/A |
| Mathematics 11 | 43,538 | 0.57 | 0.73 | 129,817 | 0.85 | 0.59 | 91 | 0.47 | 0.72 |

Table 8.F. Reliabilities and SEMs by Primary Ethnicity

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 1,597 | 0.86 | 0.43 | 40,364 | 0.87 | 0.41 |
| ELA 4 | 1,815 | 0.84 | 0.45 | 40,154 | 0.86 | 0.44 |
| ELA 5 | 1,781 | 0.86 | 0.44 | 41,968 | 0.86 | 0.45 |
| ELA 6 | 1,774 | 0.88 | 0.41 | 42,497 | 0.86 | 0.43 |
| ELA 7 | 1,770 | 0.87 | 0.45 | 40,763 | 0.87 | 0.44 |
| ELA 8 | 1,769 | 0.88 | 0.44 | 41,377 | 0.87 | 0.45 |
| ELA 11 | 1,883 | 0.88 | 0.48 | 42,434 | 0.87 | 0.49 |
| Mathematics 3 | 1,578 | 0.89 | 0.36 | 41,212 | 0.91 | 0.33 |
| Mathematics 4 | 1,805 | 0.89 | 0.38 | 41,142 | 0.91 | 0.34 |
| Mathematics 5 | 1,769 | 0.87 | 0.45 | 42,798 | 0.90 | 0.38 |
| Mathematics 6 | 1,729 | 0.88 | 0.47 | 41,749 | 0.91 | 0.41 |
| Mathematics 7 | 1,752 | 0.86 | 0.52 | 39,928 | 0.91 | 0.44 |
| Mathematics 8 | 1,729 | 0.84 | 0.58 | 39,415 | 0.91 | 0.49 |
| Mathematics 11 | 1,813 | 0.82 | 0.64 | 40,626 | 0.90 | 0.51 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 1,575 | 0.85 | 0.42 | 8,318 | 0.85 | 0.41 |
| ELA 4 | 1,674 | 0.85 | 0.45 | 8,531 | 0.84 | 0.44 |
| ELA 5 | 1,688 | 0.86 | 0.43 | 9,124 | 0.83 | 0.44 |
| ELA 6 | 1,799 | 0.88 | 0.41 | 9,315 | 0.84 | 0.42 |
| ELA 7 | 1,765 | 0.87 | 0.44 | 9,513 | 0.85 | 0.43 |
| ELA 8 | 1,806 | 0.87 | 0.43 | 9,977 | 0.85 | 0.43 |
| ELA 11 | 1,831 | 0.87 | 0.48 | 11,203 | 0.84 | 0.48 |
| Mathematics 3 | 1,565 | 0.89 | 0.34 | 8,365 | 0.89 | 0.32 |
| Mathematics 4 | 1,682 | 0.89 | 0.36 | 8,686 | 0.90 | 0.33 |
| Mathematics 5 | 1,679 | 0.86 | 0.43 | 9,283 | 0.89 | 0.38 |
| Mathematics 6 | 1,768 | 0.88 | 0.45 | 9,304 | 0.89 | 0.40 |
| Mathematics 7 | 1,747 | 0.85 | 0.51 | 9,462 | 0.89 | 0.44 |
| Mathematics 8 | 1,799 | 0.86 | 0.56 | 9,818 | 0.89 | 0.50 |
| Mathematics 11 | 1,804 | 0.82 | 0.62 | 11,073 | 0.87 | 0.53 |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 223,074 | 0.85 | 0.42 | 18,708 | 0.85 | 0.43 | 80,202 | 0.86 | 0.41 |
| ELA 4 | 227,634 | 0.85 | 0.45 | 19,934 | 0.85 | 0.46 | 82,839 | 0.85 | 0.44 |
| ELA 5 | 229,953 | 0.86 | 0.43 | 20,635 | 0.87 | 0.44 | 82,358 | 0.86 | 0.44 |
| ELA 6 | 234,788 | 0.87 | 0.41 | 20,831 | 0.87 | 0.41 | 82,695 | 0.87 | 0.41 |
| ELA 7 | 237,072 | 0.87 | 0.44 | 20,943 | 0.87 | 0.45 | 84,007 | 0.87 | 0.43 |
| ELA 8 | 234,552 | 0.87 | 0.43 | 20,729 | 0.87 | 0.44 | 84,116 | 0.88 | 0.43 |
| ELA 11 | 242,153 | 0.88 | 0.48 | 20,140 | 0.88 | 0.49 | 87,528 | 0.88 | 0.48 |
| Mathematics 3 | 224,548 | 0.89 | 0.35 | 18,343 | 0.89 | 0.36 | 80,787 | 0.90 | 0.33 |
| Mathematics 4 | 230,417 | 0.88 | 0.36 | 19,793 | 0.88 | 0.38 | 83,849 | 0.90 | 0.34 |
| Mathematics 5 | 232,346 | 0.86 | 0.44 | 20,451 | 0.85 | 0.46 | 83,241 | 0.89 | 0.39 |
| Mathematics 6 | 233,141 | 0.87 | 0.46 | 20,142 | 0.86 | 0.48 | 82,240 | 0.90 | 0.42 |
| Mathematics 7 | 236,720 | 0.85 | 0.51 | 20,541 | 0.83 | 0.54 | 83,798 | 0.89 | 0.46 |
| Mathematics 8 | 233,622 | 0.83 | 0.57 | 20,352 | 0.81 | 0.59 | 83,313 | 0.89 | 0.52 |
| Mathematics 11 | 238,961 | 0.80 | 0.63 | 19,589 | 0.78 | 0.66 | 85,935 | 0.88 | 0.56 |

Table 8.F. Reliabilities and SEMs by Migrant Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **Migrant N** | **Migrant Reliability** | **Migrant SEM** | **Not Migrant N** | **Not Migrant Reliability** | **Not Migrant SEM** |
| ELA 3 | 3,360 | 0.82 | 0.44 | 395,312 | 0.87 | 0.42 |
| ELA 4 | 3,307 | 0.83 | 0.47 | 403,557 | 0.87 | 0.44 |
| ELA 5 | 3,250 | 0.85 | 0.44 | 407,791 | 0.88 | 0.44 |
| ELA 6 | 3,271 | 0.86 | 0.41 | 413,455 | 0.89 | 0.41 |
| ELA 7 | 3,109 | 0.86 | 0.46 | 415,036 | 0.89 | 0.44 |
| ELA 8 | 3,104 | 0.86 | 0.45 | 412,687 | 0.89 | 0.44 |
| ELA 11 | 2,896 | 0.88 | 0.50 | 424,187 | 0.89 | 0.48 |
| Mathematics 3 | 3,479 | 0.87 | 0.36 | 397,910 | 0.91 | 0.34 |
| Mathematics 4 | 3,426 | 0.86 | 0.38 | 408,486 | 0.91 | 0.35 |
| Mathematics 5 | 3,383 | 0.82 | 0.46 | 411,978 | 0.89 | 0.42 |
| Mathematics 6 | 3,312 | 0.85 | 0.48 | 409,463 | 0.90 | 0.44 |
| Mathematics 7 | 3,198 | 0.81 | 0.54 | 412,852 | 0.89 | 0.49 |
| Mathematics 8 | 3,190 | 0.80 | 0.60 | 407,910 | 0.88 | 0.55 |
| Mathematics 11 | 2,911 | 0.76 | 0.66 | 416,377 | 0.86 | 0.60 |

Table 8.F. Reliabilities and SEMs by Military Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **Armed Forces Family Member N** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member N** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** |
| ELA 3 | 6,052 | 0.87 | 0.41 | 392,620 | 0.87 | 0.42 |
| ELA 4 | 6,432 | 0.86 | 0.44 | 400,432 | 0.87 | 0.44 |
| ELA 5 | 6,405 | 0.87 | 0.43 | 404,636 | 0.88 | 0.44 |
| ELA 6 | 5,108 | 0.88 | 0.41 | 411,618 | 0.89 | 0.41 |
| ELA 7 | 4,940 | 0.88 | 0.43 | 413,205 | 0.89 | 0.44 |
| ELA 8 | 5,878 | 0.88 | 0.43 | 409,913 | 0.89 | 0.44 |
| ELA 11 | 6,099 | 0.88 | 0.48 | 420,984 | 0.89 | 0.48 |
| Mathematics 3 | 6,039 | 0.90 | 0.33 | 395,350 | 0.91 | 0.34 |
| Mathematics 4 | 6,442 | 0.90 | 0.35 | 405,470 | 0.91 | 0.36 |
| Mathematics 5 | 6,439 | 0.89 | 0.41 | 408,922 | 0.89 | 0.42 |
| Mathematics 6 | 5,043 | 0.89 | 0.43 | 407,732 | 0.90 | 0.44 |
| Mathematics 7 | 4,932 | 0.88 | 0.48 | 411,118 | 0.89 | 0.49 |
| Mathematics 8 | 5,767 | 0.88 | 0.54 | 405,333 | 0.88 | 0.55 |
| Mathematics 11 | 6,041 | 0.86 | 0.59 | 413,247 | 0.86 | 0.60 |

Table 8.F. Reliabilities and SEMs by Homeless Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **Homeless N** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless N** | **Not Homeless Reliability** | **Not Homeless SEM** |
| ELA 3 | 14,231 | 0.84 | 0.44 | 384,441 | 0.87 | 0.42 |
| ELA 4 | 15,054 | 0.83 | 0.46 | 391,810 | 0.87 | 0.44 |
| ELA 5 | 14,619 | 0.86 | 0.44 | 396,422 | 0.88 | 0.44 |
| ELA 6 | 14,046 | 0.87 | 0.42 | 402,680 | 0.89 | 0.41 |
| ELA 7 | 12,909 | 0.86 | 0.45 | 405,236 | 0.89 | 0.44 |
| ELA 8 | 12,576 | 0.86 | 0.45 | 403,215 | 0.89 | 0.44 |
| ELA 11 | 12,992 | 0.87 | 0.50 | 414,091 | 0.89 | 0.48 |
| Mathematics 3 | 14,947 | 0.87 | 0.36 | 386,442 | 0.91 | 0.34 |
| Mathematics 4 | 15,814 | 0.87 | 0.39 | 396,098 | 0.91 | 0.35 |
| Mathematics 5 | 15,271 | 0.84 | 0.46 | 400,090 | 0.89 | 0.42 |
| Mathematics 6 | 14,274 | 0.85 | 0.49 | 398,501 | 0.90 | 0.44 |
| Mathematics 7 | 13,325 | 0.82 | 0.55 | 402,725 | 0.89 | 0.49 |
| Mathematics 8 | 12,965 | 0.80 | 0.60 | 398,135 | 0.88 | 0.55 |
| Mathematics 11 | 12,925 | 0.77 | 0.67 | 406,363 | 0.87 | 0.60 |

Table 8.F. Reliabilities and SEMs by Foster Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **Foster Youth N** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth N** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| ELA 3 | 1,435 | 0.83 | 0.44 | 397,237 | 0.87 | 0.42 |
| ELA 4 | 1,355 | 0.81 | 0.47 | 405,509 | 0.87 | 0.44 |
| ELA 5 | 1,344 | 0.84 | 0.44 | 409,697 | 0.88 | 0.44 |
| ELA 6 | 1,316 | 0.86 | 0.42 | 415,410 | 0.89 | 0.41 |
| ELA 7 | 1,349 | 0.84 | 0.47 | 416,796 | 0.89 | 0.44 |
| ELA 8 | 1,369 | 0.84 | 0.46 | 414,422 | 0.89 | 0.44 |
| ELA 11 | 1,612 | 0.85 | 0.51 | 425,471 | 0.89 | 0.48 |
| Mathematics 3 | 1,392 | 0.87 | 0.37 | 399,997 | 0.91 | 0.34 |
| Mathematics 4 | 1,333 | 0.85 | 0.40 | 410,579 | 0.91 | 0.35 |
| Mathematics 5 | 1,308 | 0.81 | 0.48 | 414,053 | 0.89 | 0.42 |
| Mathematics 6 | 1,249 | 0.83 | 0.49 | 411,526 | 0.90 | 0.44 |
| Mathematics 7 | 1,300 | 0.76 | 0.57 | 414,750 | 0.89 | 0.49 |
| Mathematics 8 | 1,332 | 0.74 | 0.62 | 409,768 | 0.88 | 0.55 |
| Mathematics 11 | 1,555 | 0.68 | 0.71 | 417,733 | 0.86 | 0.60 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 412 | 0.88 | 0.42 | 22,718 | 0.84 | 0.41 |
| ELA 4 | 451 | 0.86 | 0.44 | 22,189 | 0.82 | 0.44 |
| ELA 5 | 458 | 0.87 | 0.44 | 23,540 | 0.81 | 0.46 |
| ELA 6 | 466 | 0.89 | 0.41 | 24,163 | 0.82 | 0.43 |
| ELA 7 | 501 | 0.88 | 0.44 | 23,534 | 0.82 | 0.45 |
| ELA 8 | 520 | 0.88 | 0.43 | 24,012 | 0.82 | 0.45 |
| ELA 11 | 666 | 0.89 | 0.48 | 24,634 | 0.83 | 0.49 |
| Mathematics 3 | 402 | 0.92 | 0.35 | 23,181 | 0.88 | 0.33 |
| Mathematics 4 | 452 | 0.91 | 0.35 | 22,769 | 0.89 | 0.34 |
| Mathematics 5 | 460 | 0.90 | 0.41 | 23,986 | 0.88 | 0.37 |
| Mathematics 6 | 455 | 0.91 | 0.44 | 23,438 | 0.88 | 0.40 |
| Mathematics 7 | 502 | 0.89 | 0.48 | 22,660 | 0.88 | 0.43 |
| Mathematics 8 | 511 | 0.87 | 0.55 | 22,285 | 0.89 | 0.48 |
| Mathematics 11 | 639 | 0.86 | 0.60 | 23,089 | 0.89 | 0.49 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 400 | 0.86 | 0.41 | 4,803 | 0.84 | 0.41 |
| ELA 4 | 426 | 0.86 | 0.44 | 4,829 | 0.82 | 0.44 |
| ELA 5 | 415 | 0.85 | 0.43 | 5,124 | 0.82 | 0.44 |
| ELA 6 | 454 | 0.88 | 0.41 | 5,365 | 0.82 | 0.42 |
| ELA 7 | 476 | 0.88 | 0.43 | 5,672 | 0.83 | 0.43 |
| ELA 8 | 507 | 0.88 | 0.43 | 5,864 | 0.83 | 0.44 |
| ELA 11 | 650 | 0.87 | 0.47 | 6,863 | 0.83 | 0.48 |
| Mathematics 3 | 404 | 0.89 | 0.33 | 4,824 | 0.89 | 0.32 |
| Mathematics 4 | 433 | 0.90 | 0.34 | 4,928 | 0.89 | 0.33 |
| Mathematics 5 | 415 | 0.88 | 0.41 | 5,229 | 0.88 | 0.37 |
| Mathematics 6 | 449 | 0.90 | 0.43 | 5,355 | 0.89 | 0.40 |
| Mathematics 7 | 466 | 0.89 | 0.48 | 5,635 | 0.88 | 0.43 |
| Mathematics 8 | 505 | 0.89 | 0.53 | 5,754 | 0.89 | 0.49 |
| Mathematics 11 | 638 | 0.84 | 0.58 | 6,794 | 0.88 | 0.51 |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 42,623 | 0.86 | 0.41 | 3,667 | 0.87 | 0.41 | 47,146 | 0.84 | 0.41 |
| ELA 4 | 43,956 | 0.85 | 0.44 | 3,799 | 0.86 | 0.44 | 48,292 | 0.83 | 0.43 |
| ELA 5 | 43,884 | 0.86 | 0.43 | 4,085 | 0.87 | 0.43 | 48,939 | 0.83 | 0.44 |
| ELA 6 | 44,881 | 0.87 | 0.41 | 4,191 | 0.88 | 0.41 | 49,311 | 0.85 | 0.41 |
| ELA 7 | 47,240 | 0.88 | 0.43 | 4,579 | 0.88 | 0.43 | 51,444 | 0.85 | 0.43 |
| ELA 8 | 47,020 | 0.88 | 0.43 | 4,797 | 0.88 | 0.43 | 51,340 | 0.86 | 0.43 |
| ELA 11 | 53,372 | 0.88 | 0.48 | 5,723 | 0.88 | 0.48 | 57,507 | 0.87 | 0.48 |
| Mathematics 3 | 43,687 | 0.90 | 0.33 | 3,634 | 0.90 | 0.34 | 47,434 | 0.89 | 0.32 |
| Mathematics 4 | 45,206 | 0.90 | 0.35 | 3,830 | 0.90 | 0.35 | 48,869 | 0.89 | 0.33 |
| Mathematics 5 | 45,056 | 0.88 | 0.41 | 4,078 | 0.88 | 0.42 | 49,502 | 0.89 | 0.37 |
| Mathematics 6 | 45,229 | 0.89 | 0.43 | 4,128 | 0.89 | 0.44 | 49,028 | 0.89 | 0.40 |
| Mathematics 7 | 47,626 | 0.88 | 0.48 | 4,522 | 0.87 | 0.49 | 51,157 | 0.88 | 0.44 |
| Mathematics 8 | 47,124 | 0.87 | 0.54 | 4,746 | 0.85 | 0.55 | 50,585 | 0.88 | 0.50 |
| Mathematics 11 | 52,988 | 0.84 | 0.60 | 5,627 | 0.83 | 0.61 | 56,397 | 0.88 | 0.53 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 1,185 | 0.84 | 0.43 | 17,646 | 0.88 | 0.41 |
| ELA 4 | 1,364 | 0.82 | 0.45 | 17,965 | 0.87 | 0.44 |
| ELA 5 | 1,323 | 0.84 | 0.44 | 18,428 | 0.87 | 0.44 |
| ELA 6 | 1,308 | 0.86 | 0.41 | 18,334 | 0.88 | 0.42 |
| ELA 7 | 1,269 | 0.86 | 0.45 | 17,229 | 0.88 | 0.44 |
| ELA 8 | 1,249 | 0.86 | 0.44 | 17,365 | 0.88 | 0.44 |
| ELA 11 | 1,217 | 0.87 | 0.49 | 17,800 | 0.88 | 0.48 |
| Mathematics 3 | 1,176 | 0.87 | 0.36 | 18,031 | 0.91 | 0.33 |
| Mathematics 4 | 1,353 | 0.87 | 0.39 | 18,373 | 0.91 | 0.34 |
| Mathematics 5 | 1,309 | 0.84 | 0.46 | 18,812 | 0.90 | 0.39 |
| Mathematics 6 | 1,274 | 0.86 | 0.48 | 18,311 | 0.91 | 0.42 |
| Mathematics 7 | 1,250 | 0.82 | 0.54 | 17,268 | 0.91 | 0.46 |
| Mathematics 8 | 1,218 | 0.81 | 0.59 | 17,130 | 0.90 | 0.52 |
| Mathematics 11 | 1,174 | 0.78 | 0.66 | 17,537 | 0.89 | 0.54 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 1,175 | 0.83 | 0.42 | 3,515 | 0.85 | 0.41 |
| ELA 4 | 1,248 | 0.83 | 0.45 | 3,702 | 0.85 | 0.43 |
| ELA 5 | 1,273 | 0.86 | 0.43 | 4,000 | 0.84 | 0.43 |
| ELA 6 | 1,345 | 0.87 | 0.41 | 3,950 | 0.86 | 0.41 |
| ELA 7 | 1,289 | 0.86 | 0.44 | 3,841 | 0.86 | 0.43 |
| ELA 8 | 1,299 | 0.86 | 0.43 | 4,113 | 0.85 | 0.43 |
| ELA 11 | 1,181 | 0.87 | 0.48 | 4,340 | 0.85 | 0.47 |
| Mathematics 3 | 1,161 | 0.87 | 0.35 | 3,541 | 0.89 | 0.32 |
| Mathematics 4 | 1,249 | 0.87 | 0.37 | 3,758 | 0.90 | 0.33 |
| Mathematics 5 | 1,264 | 0.85 | 0.44 | 4,054 | 0.88 | 0.39 |
| Mathematics 6 | 1,319 | 0.87 | 0.46 | 3,949 | 0.89 | 0.41 |
| Mathematics 7 | 1,281 | 0.82 | 0.52 | 3,827 | 0.88 | 0.45 |
| Mathematics 8 | 1,294 | 0.82 | 0.58 | 4,064 | 0.88 | 0.51 |
| Mathematics 11 | 1,166 | 0.80 | 0.64 | 4,279 | 0.86 | 0.55 |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Content Area and Grade Level** | **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 | 180,451 | 0.84 | 0.42 | 15,041 | 0.84 | 0.43 | 33,056 | 0.86 | 0.41 |
| ELA 4 | 183,678 | 0.84 | 0.45 | 16,135 | 0.83 | 0.46 | 34,547 | 0.86 | 0.44 |
| ELA 5 | 186,069 | 0.86 | 0.43 | 16,550 | 0.86 | 0.44 | 33,419 | 0.87 | 0.43 |
| ELA 6 | 189,907 | 0.87 | 0.41 | 16,640 | 0.87 | 0.41 | 33,384 | 0.88 | 0.41 |
| ELA 7 | 189,832 | 0.86 | 0.44 | 16,364 | 0.86 | 0.45 | 32,563 | 0.88 | 0.44 |
| ELA 8 | 187,532 | 0.86 | 0.44 | 15,932 | 0.86 | 0.44 | 32,776 | 0.88 | 0.43 |
| ELA 11 | 188,781 | 0.87 | 0.48 | 14,417 | 0.87 | 0.49 | 30,021 | 0.88 | 0.48 |
| Mathematics 3 | 180,861 | 0.88 | 0.35 | 14,709 | 0.88 | 0.37 | 33,353 | 0.90 | 0.33 |
| Mathematics 4 | 185,211 | 0.87 | 0.37 | 15,963 | 0.86 | 0.39 | 34,980 | 0.90 | 0.35 |
| Mathematics 5 | 187,290 | 0.85 | 0.44 | 16,373 | 0.83 | 0.47 | 33,739 | 0.88 | 0.42 |
| Mathematics 6 | 187,912 | 0.86 | 0.46 | 16,014 | 0.85 | 0.49 | 33,212 | 0.89 | 0.44 |
| Mathematics 7 | 189,094 | 0.83 | 0.52 | 16,019 | 0.80 | 0.55 | 32,641 | 0.87 | 0.49 |
| Mathematics 8 | 186,498 | 0.81 | 0.58 | 15,606 | 0.78 | 0.60 | 32,728 | 0.86 | 0.55 |
| Mathematics 11 | 185,973 | 0.78 | 0.64 | 13,962 | 0.74 | 0.67 | 29,538 | 0.85 | 0.60 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.70 | 0.65 | 0.70 | 0.65 | 0.67 | 0.64 | 0.67 | 0.66 | 0.59 | 0.69 | 0.70 | 0.65 |
| Composite Claim 2 | 11 | 0.78 | 0.60 | 0.78 | 0.59 | 0.77 | 0.58 | 0.76 | 0.60 | 0.71 | 0.63 | 0.78 | 0.59 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.70 | 0.69 | 0.70 | 0.68 | 0.67 | 0.67 | 0.67 | 0.69 | 0.63 | 0.72 | 0.70 | 0.68 |
| Composite Claim 2 | 11 | 0.76 | 0.64 | 0.77 | 0.63 | 0.75 | 0.62 | 0.74 | 0.64 | 0.70 | 0.67 | 0.77 | 0.63 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.71 | 0.70 | 0.70 | 0.69 | 0.66 | 0.70 | 0.68 | 0.69 | 0.64 | 0.71 | 0.70 | 0.70 |
| Composite Claim 2 | 11 | 0.79 | 0.60 | 0.79 | 0.59 | 0.76 | 0.60 | 0.78 | 0.59 | 0.76 | 0.60 | 0.79 | 0.60 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.76 | 0.62 | 0.75 | 0.62 | 0.71 | 0.63 | 0.75 | 0.61 | 0.73 | 0.61 | 0.76 | 0.62 |
| Composite Claim 2 | 11 | 0.80 | 0.59 | 0.79 | 0.58 | 0.77 | 0.58 | 0.78 | 0.59 | 0.76 | 0.60 | 0.80 | 0.59 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.72 | 0.69 | 0.71 | 0.68 | 0.69 | 0.69 | 0.69 | 0.69 | 0.66 | 0.71 | 0.72 | 0.69 |
| Composite Claim 2 | 11 | 0.81 | 0.61 | 0.81 | 0.60 | 0.79 | 0.59 | 0.79 | 0.61 | 0.78 | 0.63 | 0.81 | 0.60 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.76 | 0.65 | 0.75 | 0.65 | 0.74 | 0.65 | 0.73 | 0.64 | 0.71 | 0.66 | 0.76 | 0.65 |
| Composite Claim 2 | 11 | 0.80 | 0.62 | 0.79 | 0.62 | 0.77 | 0.62 | 0.78 | 0.62 | 0.77 | 0.63 | 0.80 | 0.62 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.75 | 0.74 | 0.72 | 0.73 | 0.72 | 0.74 | 0.72 | 0.73 | 0.71 | 0.75 | 0.74 | 0.74 |
| Composite Claim 2 | 11 | 0.81 | 0.67 | 0.79 | 0.66 | 0.79 | 0.67 | 0.80 | 0.67 | 0.80 | 0.69 | 0.81 | 0.67 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.80 | 0.53 | 0.79 | 0.52 | 0.78 | 0.53 | 0.78 | 0.52 | 0.75 | 0.53 | 0.80 | 0.52 |
| Composite Claim 2 | 9–13 | 0.83 | 0.49 | 0.82 | 0.49 | 0.83 | 0.46 | 0.79 | 0.51 | 0.73 | 0.55 | 0.82 | 0.49 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.81 | 0.54 | 0.79 | 0.54 | 0.79 | 0.53 | 0.77 | 0.55 | 0.73 | 0.56 | 0.80 | 0.54 |
| Composite Claim 2 | 9–13 | 0.83 | 0.51 | 0.81 | 0.51 | 0.83 | 0.47 | 0.78 | 0.53 | 0.71 | 0.57 | 0.82 | 0.51 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.78 | 0.64 | 0.76 | 0.64 | 0.77 | 0.61 | 0.74 | 0.65 | 0.68 | 0.67 | 0.77 | 0.63 |
| Composite Claim 2 | 9–13 | 0.79 | 0.61 | 0.77 | 0.62 | 0.81 | 0.55 | 0.73 | 0.65 | 0.64 | 0.69 | 0.78 | 0.61 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.80 | 0.65 | 0.79 | 0.65 | 0.79 | 0.64 | 0.77 | 0.66 | 0.74 | 0.68 | 0.80 | 0.65 |
| Composite Claim 2 | 9–13 | 0.79 | 0.66 | 0.78 | 0.67 | 0.81 | 0.60 | 0.73 | 0.70 | 0.65 | 0.74 | 0.79 | 0.66 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.79 | 0.73 | 0.77 | 0.73 | 0.78 | 0.69 | 0.74 | 0.74 | 0.68 | 0.77 | 0.78 | 0.73 |
| Composite Claim 2 | 9–13 | 0.76 | 0.73 | 0.75 | 0.75 | 0.79 | 0.67 | 0.68 | 0.78 | 0.57 | 0.82 | 0.75 | 0.74 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.77 | 0.80 | 0.75 | 0.80 | 0.77 | 0.77 | 0.71 | 0.81 | 0.66 | 0.83 | 0.76 | 0.80 |
| Composite Claim 2 | 9–13 | 0.73 | 0.85 | 0.72 | 0.85 | 0.78 | 0.76 | 0.63 | 0.89 | 0.50 | 0.95 | 0.73 | 0.85 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 11 | 0.76 | 0.83 | 0.74 | 0.82 | 0.78 | 0.79 | 0.69 | 0.85 | 0.62 | 0.88 | 0.75 | 0.83 |
| Composite Claim 2 | 9–13 | 0.70 | 0.94 | 0.65 | 0.94 | 0.75 | 0.85 | 0.57 | 0.99 | 0.43 | 1.05 | 0.68 | 0.94 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—ELA, Grade Three

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 12 | 0.69 | 0.65 | 0.70 | 0.65 | 0.63 | 0.68 | 0.70 | 0.65 | 0.62 | 0.67 | 0.70 | 0.65 |
| Composite Claim 2 | 11 | 0.77 | 0.58 | 0.78 | 0.59 | 0.73 | 0.62 | 0.78 | 0.59 | 0.71 | 0.63 | 0.78 | 0.59 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—ELA, Grade Four

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 12 | 0.69 | 0.68 | 0.70 | 0.68 | 0.64 | 0.72 | 0.70 | 0.68 | 0.62 | 0.73 | 0.70 | 0.68 |
| Composite Claim 2 | 11 | 0.75 | 0.62 | 0.77 | 0.63 | 0.71 | 0.66 | 0.77 | 0.63 | 0.67 | 0.68 | 0.77 | 0.63 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—ELA, Grade Five

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 12 | 0.69 | 0.69 | 0.70 | 0.70 | 0.67 | 0.71 | 0.70 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 |
| Composite Claim 2 | 11 | 0.78 | 0.59 | 0.79 | 0.60 | 0.76 | 0.60 | 0.79 | 0.60 | 0.73 | 0.61 | 0.79 | 0.60 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—ELA, Grade Six

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 14 | 0.74 | 0.61 | 0.76 | 0.62 | 0.74 | 0.61 | 0.76 | 0.62 | 0.72 | 0.61 | 0.76 | 0.62 |
| Composite Claim 2 | 11 | 0.79 | 0.58 | 0.80 | 0.59 | 0.77 | 0.61 | 0.80 | 0.59 | 0.74 | 0.62 | 0.80 | 0.59 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—ELA, Grade Seven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 14 | 0.71 | 0.69 | 0.72 | 0.69 | 0.67 | 0.70 | 0.72 | 0.69 | 0.62 | 0.71 | 0.72 | 0.69 |
| Composite Claim 2 | 11 | 0.80 | 0.60 | 0.81 | 0.60 | 0.77 | 0.63 | 0.81 | 0.60 | 0.74 | 0.66 | 0.81 | 0.60 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—ELA, Grade Eight

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 14 | 0.75 | 0.65 | 0.76 | 0.65 | 0.71 | 0.66 | 0.75 | 0.65 | 0.67 | 0.66 | 0.76 | 0.65 |
| Composite Claim 2 | 11 | 0.79 | 0.62 | 0.80 | 0.62 | 0.76 | 0.63 | 0.80 | 0.62 | 0.71 | 0.65 | 0.80 | 0.62 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—ELA, Grade Eleven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 14 | 0.72 | 0.73 | 0.74 | 0.74 | 0.71 | 0.75 | 0.74 | 0.74 | 0.67 | 0.76 | 0.74 | 0.74 |
| Composite Claim 2 | 11 | 0.80 | 0.66 | 0.81 | 0.67 | 0.79 | 0.69 | 0.81 | 0.67 | 0.75 | 0.71 | 0.81 | 0.67 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—Mathematics, Grade Three

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 10 | 0.79 | 0.52 | 0.80 | 0.52 | 0.76 | 0.53 | 0.80 | 0.52 | 0.76 | 0.54 | 0.80 | 0.52 |
| Composite Claim 2 | 9–13 | 0.81 | 0.48 | 0.82 | 0.49 | 0.73 | 0.54 | 0.82 | 0.49 | 0.72 | 0.55 | 0.82 | 0.49 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—Mathematics, Grade Four

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 10 | 0.79 | 0.53 | 0.80 | 0.54 | 0.74 | 0.57 | 0.80 | 0.54 | 0.72 | 0.58 | 0.80 | 0.54 |
| Composite Claim 2 | 9–13 | 0.81 | 0.50 | 0.82 | 0.51 | 0.73 | 0.57 | 0.82 | 0.51 | 0.69 | 0.59 | 0.82 | 0.51 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—Mathematics Grade Five

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 10 | 0.76 | 0.62 | 0.77 | 0.64 | 0.70 | 0.67 | 0.77 | 0.63 | 0.66 | 0.69 | 0.77 | 0.64 |
| Composite Claim 2 | 9–13 | 0.77 | 0.60 | 0.78 | 0.61 | 0.66 | 0.69 | 0.78 | 0.61 | 0.60 | 0.72 | 0.78 | 0.61 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—Mathematics, Grade Six

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 9–10 | 0.79 | 0.65 | 0.80 | 0.65 | 0.74 | 0.68 | 0.80 | 0.65 | 0.71 | 0.68 | 0.80 | 0.65 |
| Composite Claim 2 | 9–13 | 0.77 | 0.65 | 0.78 | 0.66 | 0.66 | 0.74 | 0.79 | 0.66 | 0.63 | 0.76 | 0.78 | 0.66 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—Mathematics, Grade Seven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 9–10 | 0.77 | 0.72 | 0.78 | 0.73 | 0.69 | 0.78 | 0.78 | 0.73 | 0.61 | 0.80 | 0.78 | 0.73 |
| Composite Claim 2 | 9–13 | 0.75 | 0.72 | 0.75 | 0.74 | 0.60 | 0.83 | 0.76 | 0.74 | 0.47 | 0.86 | 0.75 | 0.74 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—Mathematics, Grade Eight

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 9–10 | 0.76 | 0.79 | 0.76 | 0.80 | 0.67 | 0.84 | 0.76 | 0.80 | 0.60 | 0.84 | 0.76 | 0.80 |
| Composite Claim 2 | 9–13 | 0.72 | 0.84 | 0.73 | 0.85 | 0.53 | 0.95 | 0.73 | 0.85 | 0.38 | 0.98 | 0.73 | 0.85 |

Table 8.F. Composite Claim Reliabilities and SEM by Military Status, Homeless Status, and Foster Status—Mathematics, Grade Eleven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **Armed Forces Family Member Reliability** | **Armed Forces Family Member SEM** | **Not Armed Forces Family Member Reliability** | **Not Armed Forces Family Member SEM** | **Homeless Reliability** | **Homeless SEM** | **Not Homeless Reliability** | **Not Homeless SEM** | **Foster Youth Reliability** | **Foster Youth SEM** | **Not Foster Youth Reliability** | **Not Foster Youth SEM** |
| Composite Claim 1 | 11 | 0.75 | 0.82 | 0.75 | 0.83 | 0.63 | 0.89 | 0.75 | 0.82 | 0.52 | 0.91 | 0.75 | 0.83 |
| Composite Claim 2 | 9–13 | 0.67 | 0.94 | 0.68 | 0.94 | 0.44 | 1.06 | 0.68 | 0.94 | 0.25 | 1.13 | 0.68 | 0.94 |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—ELA, Grade Three

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 12 | 0.69 | 0.64 | 0.63 | 0.69 | 0.69 | 0.65 | 0.65 | 0.64 | 0.54 | 0.68 | 0.57 | 0.62 | N/A | N/A |
| Composite Claim 2 | 11 | 0.78 | 0.59 | 0.72 | 0.63 | 0.78 | 0.59 | 0.75 | 0.57 | 0.68 | 0.62 | 0.69 | 0.56 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—ELA, Grade Four

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 12 | 0.69 | 0.68 | 0.64 | 0.74 | 0.70 | 0.68 | 0.65 | 0.66 | 0.52 | 0.72 | 0.59 | 0.65 | N/A | N/A |
| Composite Claim 2 | 11 | 0.76 | 0.63 | 0.69 | 0.68 | 0.76 | 0.63 | 0.73 | 0.62 | 0.64 | 0.66 | 0.68 | 0.61 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—ELA, Grade Five

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 12 | 0.69 | 0.69 | 0.65 | 0.72 | 0.70 | 0.69 | 0.63 | 0.70 | 0.51 | 0.71 | 0.61 | 0.69 | N/A | N/A |
| Composite Claim 2 | 11 | 0.78 | 0.59 | 0.73 | 0.62 | 0.79 | 0.60 | 0.74 | 0.60 | 0.67 | 0.60 | 0.71 | 0.59 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—ELA, Grade Six

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 14 | 0.74 | 0.62 | 0.70 | 0.62 | 0.75 | 0.62 | 0.67 | 0.65 | 0.58 | 0.61 | 0.68 | 0.61 | N/A | N/A |
| Composite Claim 2 | 11 | 0.78 | 0.58 | 0.70 | 0.63 | 0.79 | 0.59 | 0.74 | 0.58 | 0.65 | 0.61 | 0.74 | 0.57 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—ELA, Grade Seven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 14 | 0.71 | 0.68 | 0.62 | 0.73 | 0.71 | 0.68 | 0.66 | 0.69 | 0.41 | 0.73 | 0.66 | 0.67 | N/A | N/A |
| Composite Claim 2 | 11 | 0.80 | 0.59 | 0.70 | 0.66 | 0.81 | 0.60 | 0.77 | 0.59 | 0.62 | 0.65 | 0.77 | 0.58 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—ELA, Grade Eight

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 14 | 0.75 | 0.64 | 0.64 | 0.67 | 0.75 | 0.65 | 0.71 | 0.66 | 0.42 | 0.68 | 0.71 | 0.63 | N/A | N/A |
| Composite Claim 2 | 11 | 0.78 | 0.61 | 0.68 | 0.65 | 0.79 | 0.62 | 0.75 | 0.62 | 0.57 | 0.65 | 0.76 | 0.61 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—ELA, Grade Eleven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 14 | 0.72 | 0.73 | 0.63 | 0.76 | 0.73 | 0.74 | 0.68 | 0.74 | 0.40 | 0.78 | 0.69 | 0.72 | 0.36 | 0.72 |
| Composite Claim 2 | 11 | 0.80 | 0.66 | 0.70 | 0.71 | 0.80 | 0.67 | 0.76 | 0.67 | 0.57 | 0.72 | 0.77 | 0.66 | 0.48 | 0.74 |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—Mathematics, Grade Three

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 10 | 0.79 | 0.52 | 0.79 | 0.55 | 0.79 | 0.52 | 0.77 | 0.53 | 0.74 | 0.53 | 0.73 | 0.52 | N/A | N/A |
| Composite Claim 2 | 9–13 | 0.82 | 0.48 | 0.76 | 0.57 | 0.82 | 0.48 | 0.82 | 0.45 | 0.71 | 0.54 | 0.79 | 0.43 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—Mathematics, Grade Four

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 10 | 0.79 | 0.53 | 0.77 | 0.59 | 0.80 | 0.54 | 0.79 | 0.53 | 0.71 | 0.57 | 0.75 | 0.52 | N/A | N/A |
| Composite Claim 2 | 9–13 | 0.82 | 0.50 | 0.74 | 0.60 | 0.82 | 0.50 | 0.83 | 0.47 | 0.66 | 0.58 | 0.80 | 0.45 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—Mathematics, Grade Five

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 10 | 0.77 | 0.63 | 0.70 | 0.70 | 0.78 | 0.63 | 0.77 | 0.61 | 0.63 | 0.68 | 0.75 | 0.61 | N/A | N/A |
| Composite Claim 2 | 9–13 | 0.78 | 0.59 | 0.65 | 0.73 | 0.79 | 0.60 | 0.81 | 0.55 | 0.52 | 0.72 | 0.78 | 0.55 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—Mathematics, Grade Six

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 9–10 | 0.79 | 0.65 | 0.73 | 0.70 | 0.80 | 0.65 | 0.78 | 0.65 | 0.66 | 0.70 | 0.77 | 0.64 | N/A | N/A |
| Composite Claim 2 | 9–13 | 0.79 | 0.64 | 0.61 | 0.81 | 0.79 | 0.65 | 0.82 | 0.57 | 0.48 | 0.79 | 0.77 | 0.61 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—Mathematics, Grade Seven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 9–10 | 0.77 | 0.71 | 0.64 | 0.82 | 0.78 | 0.71 | 0.79 | 0.69 | 0.55 | 0.81 | 0.75 | 0.70 | N/A | N/A |
| Composite Claim 2 | 9–13 | 0.76 | 0.72 | 0.51 | 0.89 | 0.76 | 0.72 | 0.81 | 0.64 | 0.33 | 0.89 | 0.74 | 0.70 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—Mathematics, Grade Eight

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 9–10 | 0.76 | 0.79 | 0.62 | 0.85 | 0.76 | 0.79 | 0.78 | 0.77 | 0.52 | 0.87 | 0.73 | 0.79 | N/A | N/A |
| Composite Claim 2 | 9–13 | 0.73 | 0.83 | 0.37 | 1.01 | 0.74 | 0.83 | 0.80 | 0.74 | 0.10 | 1.03 | 0.71 | 0.83 | N/A | N/A |

Table 8.F. Composite Claim Reliabilities and SEM by Disability Status and English Fluency—Mathematics, Grade Eleven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite Claim** | **Number of Items** | **No Disability Reliability** | **No Disability SEM** | **With Disability Reliability** | **With Disability SEM** | **EO Reliability** | **EO SEM** | **IFEP Reliability** | **IFEP SEM** | **EL Reliability** | **EL SEM** | **RFEP Reliability** | **RFEP SEM** | **ADEL Reliability** | **ADEL SEM** |
| Composite Claim 1 | 11 | 0.75 | 0.81 | 0.50 | 0.92 | 0.76 | 0.81 | 0.80 | 0.77 | 0.43 | 0.94 | 0.72 | 0.82 | 0.15 | 0.95 |
| Composite Claim 2 | 9–13 | 0.69 | 0.92 | 0.15 | 1.15 | 0.70 | 0.91 | 0.78 | 0.81 | N/A | N/A | 0.65 | 0.93 | 0.07 | 1.15 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—ELA, Grade Three

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.66 | 0.66 | 0.69 | 0.65 | 0.65 | 0.65 | 0.66 | 0.63 | 0.66 | 0.66 | 0.66 | 0.67 | 0.68 | 0.64 |
| Composite Claim 2 | 11 | 0.75 | 0.61 | 0.78 | 0.57 | 0.76 | 0.59 | 0.76 | 0.57 | 0.75 | 0.60 | 0.75 | 0.61 | 0.77 | 0.58 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—ELA, Grade Four

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.67 | 0.70 | 0.68 | 0.67 | 0.67 | 0.69 | 0.65 | 0.66 | 0.67 | 0.69 | 0.67 | 0.71 | 0.68 | 0.67 |
| Composite Claim 2 | 11 | 0.72 | 0.65 | 0.75 | 0.62 | 0.75 | 0.64 | 0.73 | 0.62 | 0.74 | 0.64 | 0.73 | 0.66 | 0.75 | 0.62 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—ELA, Grade Five

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.68 | 0.70 | 0.66 | 0.71 | 0.67 | 0.69 | 0.63 | 0.69 | 0.68 | 0.69 | 0.69 | 0.70 | 0.67 | 0.70 |
| Composite Claim 2 | 11 | 0.78 | 0.60 | 0.76 | 0.61 | 0.77 | 0.60 | 0.72 | 0.60 | 0.77 | 0.59 | 0.77 | 0.60 | 0.77 | 0.60 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—ELA, Grade Six

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.75 | 0.61 | 0.71 | 0.65 | 0.74 | 0.60 | 0.68 | 0.63 | 0.74 | 0.61 | 0.74 | 0.61 | 0.73 | 0.63 |
| Composite Claim 2 | 11 | 0.78 | 0.61 | 0.76 | 0.59 | 0.79 | 0.59 | 0.73 | 0.58 | 0.78 | 0.59 | 0.77 | 0.61 | 0.78 | 0.58 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—ELA, Grade Seven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.69 | 0.70 | 0.69 | 0.70 | 0.68 | 0.69 | 0.66 | 0.68 | 0.68 | 0.69 | 0.69 | 0.70 | 0.70 | 0.68 |
| Composite Claim 2 | 11 | 0.79 | 0.62 | 0.77 | 0.60 | 0.79 | 0.61 | 0.75 | 0.59 | 0.79 | 0.61 | 0.78 | 0.63 | 0.80 | 0.59 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—ELA, Grade Eight

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.73 | 0.65 | 0.73 | 0.67 | 0.73 | 0.64 | 0.70 | 0.64 | 0.73 | 0.64 | 0.72 | 0.65 | 0.74 | 0.65 |
| Composite Claim 2 | 11 | 0.78 | 0.63 | 0.75 | 0.63 | 0.78 | 0.62 | 0.73 | 0.62 | 0.77 | 0.62 | 0.77 | 0.63 | 0.78 | 0.61 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—ELA, Grade Eleven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.72 | 0.74 | 0.70 | 0.75 | 0.72 | 0.74 | 0.67 | 0.73 | 0.71 | 0.73 | 0.72 | 0.74 | 0.72 | 0.74 |
| Composite Claim 2 | 11 | 0.80 | 0.67 | 0.76 | 0.68 | 0.79 | 0.67 | 0.73 | 0.67 | 0.79 | 0.67 | 0.79 | 0.68 | 0.79 | 0.67 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—Mathematics, Grade Three

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.78 | 0.53 | 0.77 | 0.54 | 0.76 | 0.52 | 0.75 | 0.52 | 0.77 | 0.52 | 0.78 | 0.53 | 0.78 | 0.52 |
| Composite Claim 2 | 9–13 | 0.78 | 0.53 | 0.84 | 0.46 | 0.77 | 0.50 | 0.81 | 0.45 | 0.78 | 0.51 | 0.76 | 0.53 | 0.82 | 0.46 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—Mathematics, Grade Four

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.76 | 0.56 | 0.79 | 0.53 | 0.77 | 0.55 | 0.76 | 0.52 | 0.76 | 0.55 | 0.76 | 0.57 | 0.78 | 0.53 |
| Composite Claim 2 | 9–13 | 0.77 | 0.55 | 0.84 | 0.47 | 0.77 | 0.53 | 0.82 | 0.46 | 0.77 | 0.53 | 0.74 | 0.56 | 0.82 | 0.48 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—Mathematics, Grade Five

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.73 | 0.66 | 0.77 | 0.60 | 0.73 | 0.64 | 0.75 | 0.60 | 0.73 | 0.65 | 0.72 | 0.67 | 0.77 | 0.61 |
| Composite Claim 2 | 9–13 | 0.73 | 0.66 | 0.82 | 0.53 | 0.72 | 0.64 | 0.79 | 0.54 | 0.71 | 0.65 | 0.68 | 0.68 | 0.80 | 0.56 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—Mathematics, Grade Six

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.78 | 0.67 | 0.77 | 0.65 | 0.77 | 0.66 | 0.75 | 0.64 | 0.76 | 0.66 | 0.76 | 0.67 | 0.78 | 0.64 |
| Composite Claim 2 | 9–13 | 0.73 | 0.71 | 0.82 | 0.58 | 0.74 | 0.69 | 0.79 | 0.58 | 0.72 | 0.70 | 0.68 | 0.74 | 0.80 | 0.61 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—Mathematics, Grade Seven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.74 | 0.75 | 0.79 | 0.69 | 0.72 | 0.74 | 0.76 | 0.68 | 0.72 | 0.74 | 0.70 | 0.77 | 0.77 | 0.69 |
| Composite Claim 2 | 9–13 | 0.68 | 0.79 | 0.82 | 0.63 | 0.67 | 0.78 | 0.78 | 0.65 | 0.66 | 0.78 | 0.61 | 0.82 | 0.77 | 0.68 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—Mathematics, Grade Eight

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.71 | 0.82 | 0.78 | 0.77 | 0.74 | 0.80 | 0.75 | 0.77 | 0.70 | 0.81 | 0.68 | 0.82 | 0.76 | 0.78 |
| Composite Claim 2 | 9–13 | 0.62 | 0.90 | 0.82 | 0.72 | 0.66 | 0.88 | 0.77 | 0.75 | 0.61 | 0.90 | 0.54 | 0.93 | 0.76 | 0.78 |

Table 8.F. Composite Claim Reliabilities and SEM by Primary Ethnicity—Mathematics, Grade Eleven

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 11 | 0.69 | 0.86 | 0.79 | 0.76 | 0.71 | 0.84 | 0.75 | 0.76 | 0.67 | 0.85 | 0.65 | 0.87 | 0.76 | 0.79 |
| Composite Claim 2 | 9–13 | 0.58 | 1.00 | 0.80 | 0.76 | 0.58 | 0.98 | 0.73 | 0.82 | 0.54 | 1.00 | 0.46 | 1.05 | 0.73 | 0.86 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.71 | 0.65 | 0.62 | 0.64 | 0.66 | 0.62 | 0.64 | 0.64 | 0.68 | 0.64 | 0.69 | 0.64 | 0.65 | 0.64 |
| Composite Claim 2 | 11 | 0.80 | 0.60 | 0.74 | 0.57 | 0.77 | 0.59 | 0.75 | 0.57 | 0.77 | 0.58 | 0.78 | 0.59 | 0.75 | 0.57 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.68 | 0.67 | 0.61 | 0.67 | 0.69 | 0.69 | 0.62 | 0.66 | 0.68 | 0.67 | 0.69 | 0.68 | 0.63 | 0.66 |
| Composite Claim 2 | 11 | 0.76 | 0.62 | 0.69 | 0.62 | 0.77 | 0.63 | 0.70 | 0.62 | 0.75 | 0.62 | 0.76 | 0.63 | 0.72 | 0.61 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.69 | 0.69 | 0.58 | 0.72 | 0.66 | 0.68 | 0.60 | 0.70 | 0.68 | 0.69 | 0.69 | 0.69 | 0.61 | 0.70 |
| Composite Claim 2 | 11 | 0.79 | 0.60 | 0.68 | 0.62 | 0.75 | 0.59 | 0.70 | 0.61 | 0.77 | 0.59 | 0.78 | 0.59 | 0.73 | 0.60 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.75 | 0.61 | 0.62 | 0.67 | 0.74 | 0.61 | 0.65 | 0.64 | 0.74 | 0.61 | 0.74 | 0.61 | 0.68 | 0.64 |
| Composite Claim 2 | 11 | 0.80 | 0.59 | 0.69 | 0.59 | 0.80 | 0.59 | 0.70 | 0.58 | 0.78 | 0.58 | 0.79 | 0.59 | 0.75 | 0.58 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.71 | 0.69 | 0.61 | 0.71 | 0.71 | 0.68 | 0.63 | 0.68 | 0.70 | 0.68 | 0.70 | 0.68 | 0.66 | 0.68 |
| Composite Claim 2 | 11 | 0.79 | 0.61 | 0.70 | 0.60 | 0.80 | 0.60 | 0.72 | 0.59 | 0.80 | 0.59 | 0.80 | 0.60 | 0.77 | 0.59 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.73 | 0.64 | 0.66 | 0.68 | 0.75 | 0.64 | 0.68 | 0.65 | 0.74 | 0.64 | 0.74 | 0.64 | 0.71 | 0.65 |
| Composite Claim 2 | 11 | 0.79 | 0.61 | 0.67 | 0.64 | 0.79 | 0.62 | 0.70 | 0.62 | 0.78 | 0.61 | 0.79 | 0.62 | 0.75 | 0.61 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.74 | 0.73 | 0.65 | 0.76 | 0.72 | 0.73 | 0.65 | 0.73 | 0.72 | 0.73 | 0.73 | 0.73 | 0.70 | 0.74 |
| Composite Claim 2 | 11 | 0.81 | 0.67 | 0.71 | 0.68 | 0.79 | 0.67 | 0.71 | 0.67 | 0.80 | 0.67 | 0.80 | 0.67 | 0.77 | 0.66 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.82 | 0.52 | 0.69 | 0.55 | 0.75 | 0.51 | 0.73 | 0.52 | 0.78 | 0.52 | 0.78 | 0.52 | 0.75 | 0.52 |
| Composite Claim 2 | 9–13 | 0.83 | 0.48 | 0.80 | 0.45 | 0.80 | 0.47 | 0.81 | 0.45 | 0.81 | 0.47 | 0.81 | 0.49 | 0.81 | 0.45 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.78 | 0.54 | 0.72 | 0.53 | 0.78 | 0.53 | 0.75 | 0.52 | 0.78 | 0.53 | 0.78 | 0.53 | 0.76 | 0.52 |
| Composite Claim 2 | 9–13 | 0.83 | 0.50 | 0.80 | 0.46 | 0.82 | 0.48 | 0.81 | 0.45 | 0.81 | 0.50 | 0.80 | 0.51 | 0.81 | 0.46 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.77 | 0.63 | 0.71 | 0.60 | 0.74 | 0.62 | 0.74 | 0.59 | 0.76 | 0.62 | 0.76 | 0.63 | 0.75 | 0.59 |
| Composite Claim 2 | 9–13 | 0.79 | 0.58 | 0.80 | 0.50 | 0.76 | 0.60 | 0.79 | 0.52 | 0.77 | 0.59 | 0.75 | 0.61 | 0.79 | 0.53 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.80 | 0.65 | 0.70 | 0.66 | 0.78 | 0.66 | 0.73 | 0.63 | 0.78 | 0.64 | 0.78 | 0.65 | 0.75 | 0.63 |
| Composite Claim 2 | 9–13 | 0.79 | 0.66 | 0.80 | 0.55 | 0.78 | 0.63 | 0.79 | 0.57 | 0.77 | 0.65 | 0.76 | 0.67 | 0.79 | 0.58 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.79 | 0.72 | 0.72 | 0.68 | 0.77 | 0.73 | 0.75 | 0.68 | 0.76 | 0.71 | 0.75 | 0.72 | 0.75 | 0.68 |
| Composite Claim 2 | 9–13 | 0.76 | 0.73 | 0.79 | 0.60 | 0.75 | 0.73 | 0.78 | 0.63 | 0.74 | 0.72 | 0.71 | 0.74 | 0.77 | 0.64 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.73 | 0.80 | 0.74 | 0.76 | 0.77 | 0.79 | 0.74 | 0.76 | 0.73 | 0.79 | 0.72 | 0.80 | 0.74 | 0.76 |
| Composite Claim 2 | 9–13 | 0.70 | 0.82 | 0.80 | 0.68 | 0.75 | 0.82 | 0.78 | 0.72 | 0.71 | 0.83 | 0.66 | 0.86 | 0.77 | 0.74 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 11 | 0.74 | 0.82 | 0.77 | 0.74 | 0.73 | 0.80 | 0.75 | 0.75 | 0.72 | 0.82 | 0.71 | 0.83 | 0.76 | 0.77 |
| Composite Claim 2 | 9–13 | 0.68 | 0.94 | 0.79 | 0.71 | 0.65 | 0.92 | 0.75 | 0.79 | 0.64 | 0.94 | 0.60 | 0.97 | 0.75 | 0.82 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.63 | 0.66 | 0.70 | 0.65 | 0.62 | 0.66 | 0.66 | 0.63 | 0.64 | 0.66 | 0.64 | 0.67 | 0.68 | 0.65 |
| Composite Claim 2 | 11 | 0.72 | 0.62 | 0.79 | 0.58 | 0.74 | 0.60 | 0.76 | 0.57 | 0.74 | 0.60 | 0.73 | 0.62 | 0.77 | 0.59 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.65 | 0.71 | 0.70 | 0.67 | 0.64 | 0.69 | 0.67 | 0.66 | 0.65 | 0.70 | 0.65 | 0.71 | 0.68 | 0.68 |
| Composite Claim 2 | 11 | 0.68 | 0.65 | 0.77 | 0.62 | 0.73 | 0.65 | 0.75 | 0.62 | 0.73 | 0.64 | 0.71 | 0.66 | 0.75 | 0.63 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 12 | 0.65 | 0.70 | 0.69 | 0.70 | 0.67 | 0.69 | 0.64 | 0.68 | 0.67 | 0.69 | 0.67 | 0.70 | 0.69 | 0.69 |
| Composite Claim 2 | 11 | 0.75 | 0.60 | 0.79 | 0.60 | 0.77 | 0.60 | 0.73 | 0.59 | 0.76 | 0.59 | 0.76 | 0.60 | 0.78 | 0.59 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.73 | 0.61 | 0.74 | 0.63 | 0.73 | 0.60 | 0.71 | 0.62 | 0.73 | 0.60 | 0.73 | 0.61 | 0.75 | 0.61 |
| Composite Claim 2 | 11 | 0.75 | 0.61 | 0.79 | 0.59 | 0.78 | 0.59 | 0.75 | 0.58 | 0.77 | 0.59 | 0.76 | 0.61 | 0.78 | 0.59 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.65 | 0.70 | 0.72 | 0.69 | 0.65 | 0.69 | 0.67 | 0.68 | 0.67 | 0.69 | 0.67 | 0.70 | 0.71 | 0.68 |
| Composite Claim 2 | 11 | 0.77 | 0.63 | 0.80 | 0.60 | 0.78 | 0.61 | 0.77 | 0.59 | 0.78 | 0.61 | 0.77 | 0.63 | 0.80 | 0.60 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.71 | 0.65 | 0.75 | 0.65 | 0.70 | 0.64 | 0.71 | 0.64 | 0.71 | 0.64 | 0.71 | 0.65 | 0.74 | 0.64 |
| Composite Claim 2 | 11 | 0.76 | 0.63 | 0.78 | 0.62 | 0.76 | 0.62 | 0.75 | 0.61 | 0.77 | 0.62 | 0.76 | 0.63 | 0.78 | 0.62 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 14 | 0.70 | 0.74 | 0.73 | 0.74 | 0.71 | 0.74 | 0.68 | 0.73 | 0.70 | 0.73 | 0.70 | 0.74 | 0.73 | 0.74 |
| Composite Claim 2 | 11 | 0.78 | 0.68 | 0.79 | 0.67 | 0.79 | 0.67 | 0.75 | 0.66 | 0.79 | 0.67 | 0.78 | 0.69 | 0.80 | 0.67 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.75 | 0.53 | 0.79 | 0.53 | 0.75 | 0.52 | 0.76 | 0.52 | 0.76 | 0.52 | 0.76 | 0.54 | 0.78 | 0.52 |
| Composite Claim 2 | 9–13 | 0.74 | 0.54 | 0.84 | 0.47 | 0.74 | 0.52 | 0.81 | 0.45 | 0.77 | 0.51 | 0.74 | 0.54 | 0.81 | 0.48 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.74 | 0.57 | 0.80 | 0.53 | 0.76 | 0.55 | 0.77 | 0.52 | 0.75 | 0.55 | 0.74 | 0.57 | 0.78 | 0.54 |
| Composite Claim 2 | 9–13 | 0.72 | 0.57 | 0.84 | 0.49 | 0.74 | 0.54 | 0.82 | 0.47 | 0.75 | 0.54 | 0.71 | 0.57 | 0.81 | 0.50 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 10 | 0.69 | 0.67 | 0.78 | 0.61 | 0.72 | 0.65 | 0.75 | 0.61 | 0.71 | 0.65 | 0.69 | 0.68 | 0.76 | 0.63 |
| Composite Claim 2 | 9–13 | 0.67 | 0.69 | 0.81 | 0.56 | 0.69 | 0.65 | 0.78 | 0.56 | 0.69 | 0.66 | 0.63 | 0.70 | 0.76 | 0.61 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.75 | 0.68 | 0.79 | 0.65 | 0.76 | 0.66 | 0.76 | 0.64 | 0.75 | 0.66 | 0.74 | 0.68 | 0.78 | 0.64 |
| Composite Claim 2 | 9–13 | 0.68 | 0.73 | 0.82 | 0.61 | 0.71 | 0.71 | 0.78 | 0.60 | 0.69 | 0.71 | 0.63 | 0.75 | 0.77 | 0.65 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.70 | 0.76 | 0.79 | 0.70 | 0.69 | 0.74 | 0.76 | 0.69 | 0.70 | 0.75 | 0.67 | 0.78 | 0.75 | 0.72 |
| Composite Claim 2 | 9–13 | 0.60 | 0.82 | 0.80 | 0.68 | 0.61 | 0.79 | 0.76 | 0.68 | 0.63 | 0.79 | 0.55 | 0.84 | 0.73 | 0.73 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 9–10 | 0.68 | 0.83 | 0.79 | 0.78 | 0.71 | 0.81 | 0.74 | 0.77 | 0.68 | 0.82 | 0.65 | 0.83 | 0.73 | 0.79 |
| Composite Claim 2 | 9–13 | 0.55 | 0.93 | 0.79 | 0.77 | 0.58 | 0.91 | 0.74 | 0.78 | 0.57 | 0.91 | 0.47 | 0.95 | 0.69 | 0.84 |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Composite 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** |
| Composite Claim 1 | 11 | 0.64 | 0.87 | 0.79 | 0.78 | 0.68 | 0.85 | 0.74 | 0.78 | 0.64 | 0.86 | 0.60 | 0.88 | 0.72 | 0.83 |
| Composite Claim 2 | 9–13 | 0.46 | 1.03 | 0.76 | 0.83 | 0.52 | 1.02 | 0.69 | 0.85 | 0.49 | 1.02 | 0.37 | 1.07 | 0.65 | 0.94 |

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

**Notes:**

* Conditional standard errors of measurement (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 are reported in table 8.G.1 through table 8.G.14. Data in these tables is used to create the distribution plots presented in figure 8.G.1 through figure 8.G.14. Students who took the paper form will not be included, because that form used the full blueprint.

Figure 8.G.1 for grade three ELA presents the CSEM distribution plot chart that was created using the data in table 8.G.1, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2100 to 2700 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.G.1 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

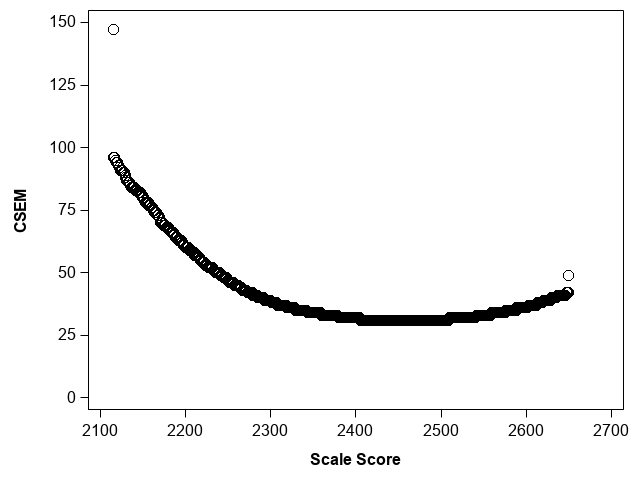


Figure 8.G. Scale score CSEM distribution plots—ELA, grade three

Table 8.G. Scale Score CSEM Distribution—ELA, Grade Three

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 272,824 | 272,824 | 68% | 68% |
| [35, 40) | 68,773 | 341,597 | 17% | 85% |
| [40, 45) | 26,459 | 368,056 | 7% | 91% |
| [45, 50) | 16,090 | 384,146 | 4% | 95% |
| [50, 55) | 7,821 | 391,967 | 2% | 97% |
| [55, 60) | 3,610 | 395,577 | <1% | 98% |
| [60, 65) | 2,632 | 398,209 | <1% | 99% |
| [65, 70) | 1,508 | 399,717 | <1% | 99% |
| [70, 75) | 771 | 400,488 | <1% | 99% |
| [75, 80) | 717 | 401,205 | <1% | 99% |
| [80, 85) | 633 | 401,838 | <1% | 100% |
| [85, 90) | 230 | 402,068 | <1% | 100% |
| [90, 95) | 242 | 402,310 | <1% | 100% |
| [95, 100) | 57 | 402,367 | <1% | 100% |
| [145, 150) | 1,207 | 403,574 | <1% | 100% |

Figure 8.G.2 for grade four ELA presents the CSEM distribution plot chart that was created using the data in table 8.G.2, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2100 to 2700 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.G.2 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

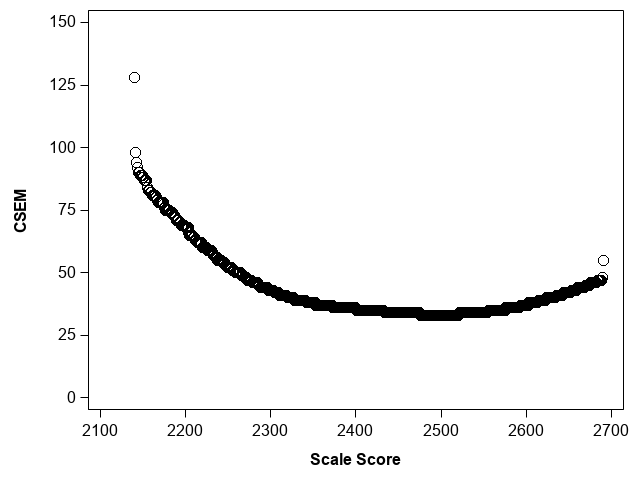


Figure 8.G. Scale score CSEM distribution plots—ELA, grade four

Table 8.G. Scale Score CSEM Distribution—ELA, Grade Four

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 163,798 | 163,798 | 40% | 40% |
| [35, 40) | 170,396 | 334,194 | 41% | 81% |
| [40, 45) | 43,109 | 377,303 | 10% | 91% |
| [45, 50) | 13,261 | 390,564 | 3% | 94% |
| [50, 55) | 7,090 | 397,654 | 2% | 96% |
| [55, 60) | 8,664 | 406,318 | 2% | 98% |
| [60, 65) | 2,338 | 408,656 | <1% | 99% |
| [65, 70) | 1,276 | 409,932 | <1% | 99% |
| [70, 75) | 872 | 410,804 | <1% | 99% |
| [75, 80) | 685 | 411,489 | <1% | 100% |
| [80, 85) | 395 | 411,884 | <1% | 100% |
| [85, 90) | 236 | 412,120 | <1% | 100% |
| [90, 95) | 113 | 412,233 | <1% | 100% |
| [95, 100) | 18 | 412,251 | <1% | 100% |
| [125, 130) | 1,228 | 413,479 | <1% | 100% |

Figure 8.G.3 for grade five ELA presents the CSEM distribution plot chart that was created using the data in table 8.G.3, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 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 2200). 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.G.3 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

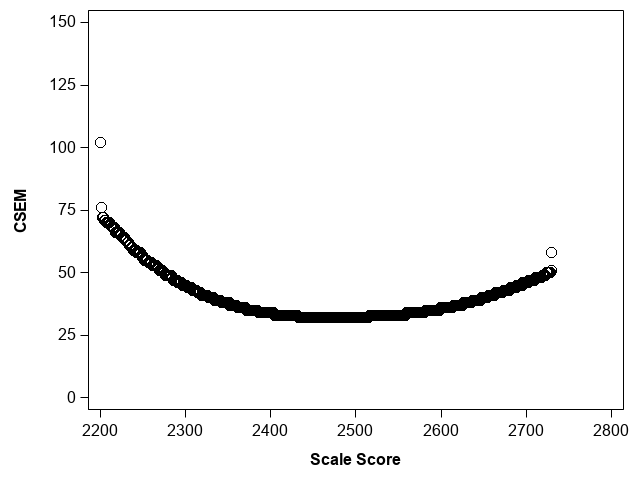


Figure 8.G. Scale score CSEM distribution plots—ELA, grade five

Table 8.G. Scale Score CSEM Distribution—ELA, Grade Five

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 248,229 | 248,229 | 59% | 59% |
| [35, 40) | 99,484 | 347,713 | 24% | 83% |
| [40, 45) | 36,313 | 384,026 | 9% | 92% |
| [45, 50) | 16,724 | 400,750 | 4% | 96% |
| [50, 55) | 5,102 | 405,852 | 1% | 97% |
| [55, 60) | 7,684 | 413,536 | 2% | 99% |
| [60, 65) | 1,265 | 414,801 | <1% | 99% |
| [65, 70) | 1,019 | 415,820 | <1% | 99% |
| [70, 75) | 514 | 416,334 | <1% | 100% |
| [75, 80) | 53 | 416,387 | <1% | 100% |
| [100, 105) | 2,026 | 418,413 | <1% | 100% |

Figure 8.G.4 for grade six ELA presents the CSEM distribution plot chart that was created using the data in table 8.G.4, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 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 2200). 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.G.4 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

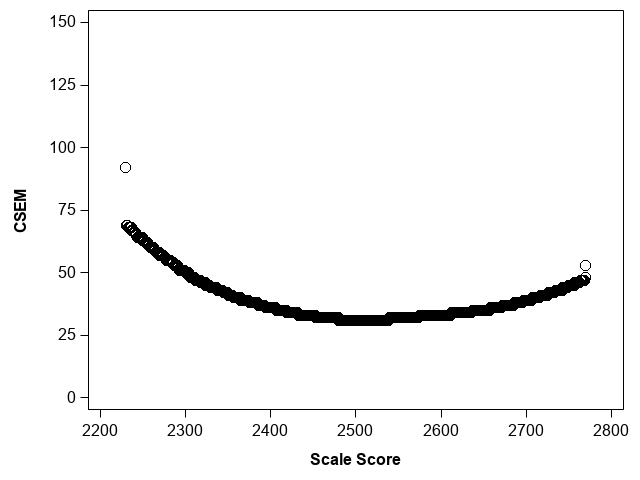


Figure 8.G. Scale score CSEM distribution plots—ELA, grade six

Table 8.G. Scale Score CSEM Distribution—ELA, Grade Six

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 281,914 | 281,914 | 67% | 67% |
| [35, 40) | 89,012 | 370,926 | 21% | 88% |
| [40, 45) | 27,780 | 398,706 | 7% | 95% |
| [45, 50) | 9,885 | 408,591 | 2% | 97% |
| [50, 55) | 6,137 | 414,728 | 1% | 99% |
| [55, 60) | 2,288 | 417,016 | <1% | 99% |
| [60, 65) | 1,266 | 418,282 | <1% | 99% |
| [65, 70) | 572 | 418,854 | <1% | 100% |
| [90, 95) | 1,535 | 420,389 | <1% | 100% |

Figure 8.G.5 for grade seven ELA, presents the CSEM distribution plot chart that was created using the data in table 8.G.5, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 to 2900 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 2200). 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.G.5 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

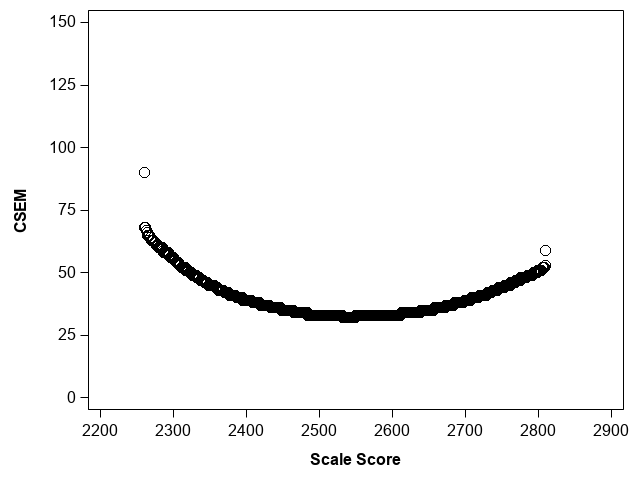


Figure 8.G. Scale score CSEM distribution plots—ELA, grade seven

Table 8.G. Scale Score CSEM Distribution—ELA, Grade Seven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 224,535 | 224,535 | 53% | 53% |
| [35, 40) | 119,764 | 344,299 | 28% | 81% |
| [40, 45) | 40,365 | 384,664 | 10% | 91% |
| [45, 50) | 18,990 | 403,654 | 4% | 95% |
| [50, 55) | 7,709 | 411,363 | 2% | 97% |
| [55, 60) | 5,427 | 416,790 | 1% | 98% |
| [60, 65) | 2,519 | 419,309 | <1% | 99% |
| [65, 70) | 736 | 420,045 | <1% | 99% |
| [90, 95) | 4,267 | 424,312 | 1% | 100% |

Figure 8.G.6 for grade eight ELA presents the CSEM distribution plot chart that was created using the data in table 8.G.6, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 to 2900 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 2200). 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.G.6 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

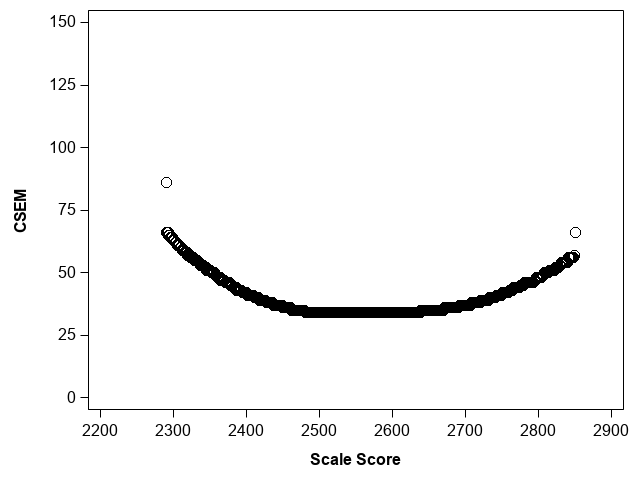


Figure 8.G. Scale score CSEM distribution plots—ELA, grade eight

Table 8.G. Scale Score CSEM Distribution—ELA, Grade Eight

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [30, 35) | 205,233 | 205,233 | 48% | 48% |
| [35, 40) | 137,920 | 343,153 | 32% | 81% |
| [40, 45) | 36,777 | 379,930 | 9% | 89% |
| [45, 50) | 16,258 | 396,188 | 4% | 93% |
| [50, 55) | 10,047 | 406,235 | 2% | 96% |
| [55, 60) | 5,730 | 411,965 | 1% | 97% |
| [60, 65) | 3,044 | 415,009 | <1% | 98% |
| [65, 70) | 1,545 | 416,554 | <1% | 98% |
| [85, 90) | 8,141 | 424,695 | 2% | 100% |

Figure 8.G.7 for grade eleven ELA presents the CSEM distribution plot chart that was created using the data in table 8.G.7, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2300 to 2900 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 2300). 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.G.7 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

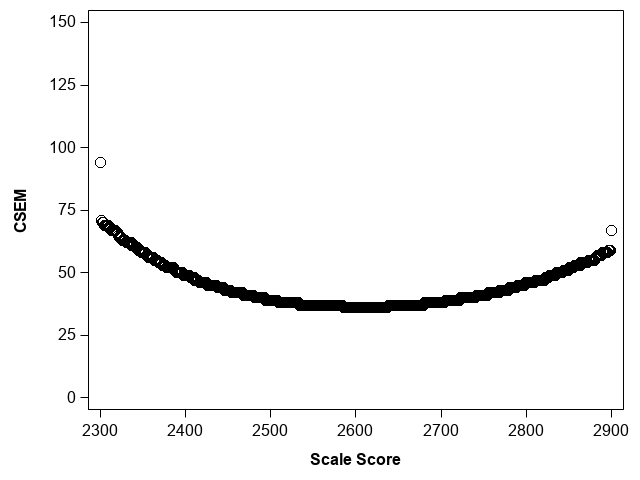


Figure 8.G. Scale score CSEM distribution plots—ELA, grade eleven

Table 8.G. Scale Score CSEM Distribution—ELA, Grade Eleven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [35, 40) | 265,562 | 265,562 | 61% | 61% |
| [40, 45) | 89,728 | 355,290 | 21% | 82% |
| [45, 50) | 35,349 | 390,639 | 8% | 90% |
| [50, 55) | 17,863 | 408,502 | 4% | 94% |
| [55, 60) | 9,276 | 417,778 | 2% | 96% |
| [60, 65) | 5,711 | 423,489 | 1% | 97% |
| [65, 70) | 4,180 | 427,669 | <1% | 98% |
| [70, 75) | 554 | 428,223 | <1% | 98% |
| [90, 95) | 7,066 | 435,289 | 2% | 100% |

Figure 8.G.8 for grade three mathematics presents the CSEM distribution plot chart that was created using the data in table 8.G.8, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2100 to 2700 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.G.8 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

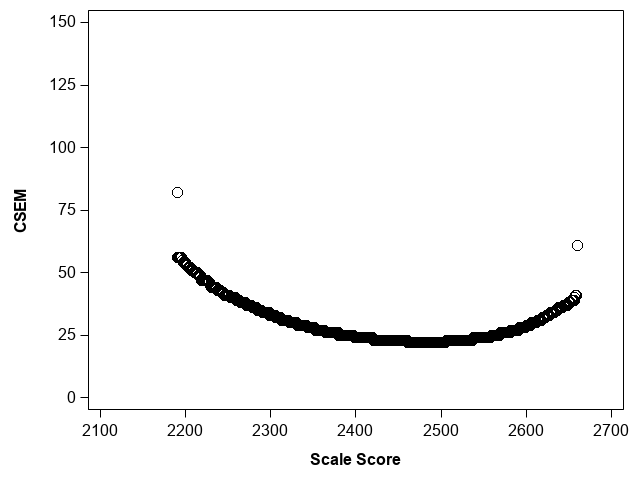


Figure 8.G. Scale score CSEM distribution plots—mathematics, grade three

Table 8.G. Scale Score CSEM Distribution—Mathematics, Grade Three

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [20, 25) | 220,790 | 220,790 | 54% | 54% |
| [25, 30) | 109,774 | 330,564 | 27% | 81% |
| [30, 35) | 39,150 | 369,714 | 10% | 90% |
| [35, 40) | 16,793 | 386,507 | 4% | 95% |
| [40, 45) | 8,717 | 395,224 | 2% | 97% |
| [45, 50) | 3,103 | 398,327 | <1% | 97% |
| [50, 55) | 2,331 | 400,658 | <1% | 98% |
| [55, 60) | 731 | 401,389 | <1% | 98% |
| [60, 65) | 2,943 | 404,332 | <1% | 99% |
| [80, 85) | 4,237 | 408,569 | 1% | 100% |

Figure 8.G.9 for grade four mathematics presents the CSEM distribution plot chart that was created using the data in table 8.G.9, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 to 2700 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 2200). 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.G.9 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

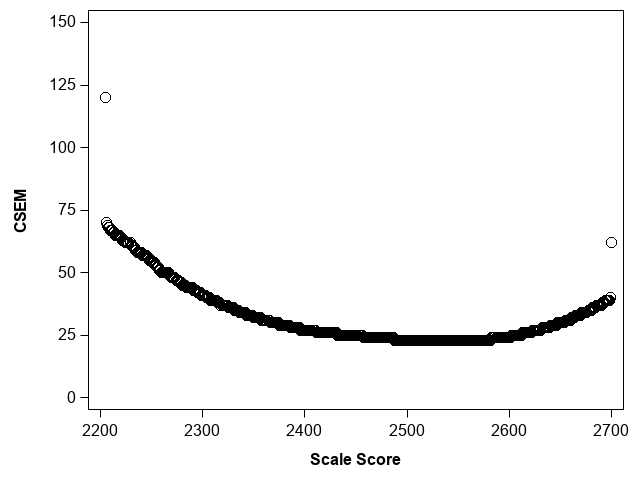


Figure 8.G. Scale score CSEM distribution plots—mathematics, grade four

Table 8.G. Scale Score CSEM Distribution—Mathematics, Grade Four

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [20, 25) | 187,349 | 187,349 | 45% | 45% |
| [25, 30) | 140,155 | 327,504 | 34% | 78% |
| [30, 35) | 44,677 | 372,181 | 11% | 89% |
| [35, 40) | 19,283 | 391,464 | 5% | 94% |
| [40, 45) | 9,209 | 400,673 | 2% | 96% |
| [45, 50) | 4,140 | 404,813 | <1% | 97% |
| [50, 55) | 3,056 | 407,869 | <1% | 98% |
| [55, 60) | 1,999 | 409,868 | <1% | 98% |
| [60, 65) | 4,788 | 414,656 | 1% | 99% |
| [65, 70) | 832 | 415,488 | <1% | 99% |
| [70, 75) | 54 | 415,542 | <1% | 99% |
| [120, 125) | 2,599 | 418,141 | <1% | 100% |

Figure 8.G.10 for grade five mathematics presents the CSEM distribution plot chart that was created using the data in table 8.G.10, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 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 2200). 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.G.10 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

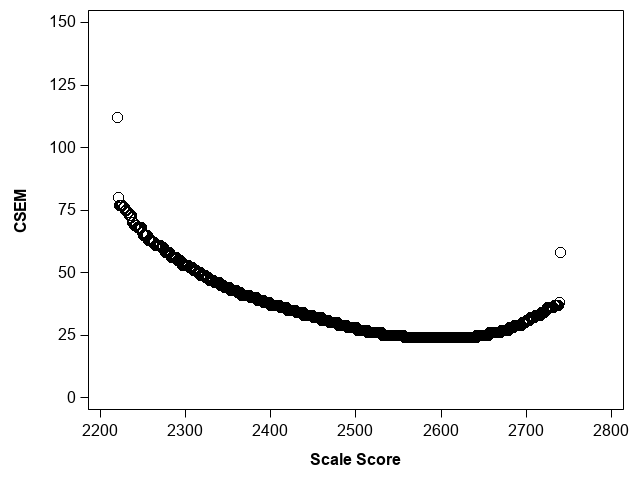


Figure 8.G. Scale score CSEM distribution plots—mathematics, grade five

Table 8.G. Scale Score CSEM Distribution—Mathematics, Grade Five

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [20, 25) | 80,754 | 80,754 | 19% | 19% |
| [25, 30) | 127,330 | 208,084 | 30% | 49% |
| [30, 35) | 73,848 | 281,932 | 17% | 67% |
| [35, 40) | 61,392 | 343,324 | 15% | 81% |
| [40, 45) | 34,145 | 377,469 | 8% | 89% |
| [45, 50) | 16,460 | 393,929 | 4% | 93% |
| [50, 55) | 9,104 | 403,033 | 2% | 95% |
| [55, 60) | 9,107 | 412,140 | 2% | 98% |
| [60, 65) | 3,368 | 415,508 | <1% | 98% |
| [65, 70) | 2,028 | 417,536 | <1% | 99% |
| [70, 75) | 736 | 418,272 | <1% | 99% |
| [75, 80) | 748 | 419,020 | <1% | 99% |
| [80, 85) | 73 | 419,093 | <1% | 99% |
| [110, 115) | 3,419 | 422,512 | <1% | 100% |

Figure 8.G.11 for grade six mathematics presents the CSEM distribution plot chart that was created using the data in table 8.G.11, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 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 2200). 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.G.11 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

Scale score CSEM distribution plots for grade six mathematics, which was created using the data in table 8.G.11, is described in the previous two paragraphs.


Figure 8.G. Scale score CSEM distribution plots—mathematics, grade six

Table 8.G. Scale Score CSEM Distribution—Mathematics, Grade Six

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [25, 30) | 153,286 | 153,286 | 36% | 36% |
| [30, 35) | 106,321 | 259,607 | 25% | 61% |
| [35, 40) | 53,615 | 313,222 | 13% | 74% |
| [40, 45) | 35,051 | 348,273 | 8% | 82% |
| [45, 50) | 22,066 | 370,339 | 5% | 87% |
| [50, 55) | 13,317 | 383,656 | 3% | 91% |
| [55, 60) | 10,314 | 393,970 | 2% | 93% |
| [60, 65) | 10,052 | 404,022 | 2% | 95% |
| [65, 70) | 4,982 | 409,004 | 1% | 97% |
| [70, 75) | 2,610 | 411,614 | <1% | 97% |
| [75, 80) | 2,286 | 413,900 | <1% | 98% |
| [80, 85) | 1,875 | 415,775 | <1% | 98% |
| [85, 90) | 937 | 416,712 | <1% | 98% |
| [140, 145) | 7,060 | 423,772 | 2% | 100% |

Figure 8.G.12 for grade seven mathematics presents the CSEM distribution plot chart that was created using the data in table 8.G.12, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 to 2900 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 2200). 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.G.12 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

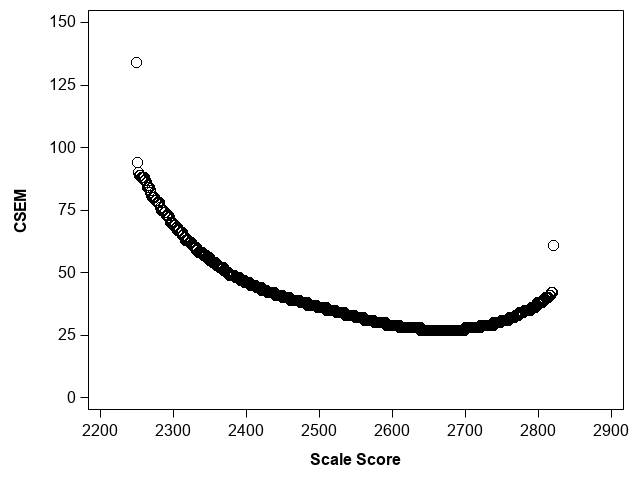


Figure 8.G. Scale score CSEM distribution plots—mathematics, grade seven

Table 8.G. Scale Score CSEM Distribution—Mathematics, Grade Seven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [25, 30) | 99,805 | 99,805 | 23% | 23% |
| [30, 35) | 91,693 | 191,498 | 21% | 45% |
| [35, 40) | 83,988 | 275,486 | 20% | 65% |
| [40, 45) | 51,467 | 326,953 | 12% | 77% |
| [45, 50) | 34,561 | 361,514 | 8% | 85% |
| [50, 55) | 18,424 | 379,938 | 4% | 89% |
| [55, 60) | 12,703 | 392,641 | 3% | 92% |
| [60, 65) | 11,744 | 404,385 | 3% | 95% |
| [65, 70) | 5,421 | 409,806 | 1% | 96% |
| [70, 75) | 3,420 | 413,226 | <1% | 97% |
| [75, 80) | 2,932 | 416,158 | <1% | 97% |
| [80, 85) | 1,684 | 417,842 | <1% | 98% |
| [85, 90) | 1,647 | 419,489 | <1% | 98% |
| [90, 95) | 253 | 419,742 | <1% | 98% |
| [130, 135) | 7,169 | 426,911 | 2% | 100% |

Figure 8.G.13 for grade eight mathematics presents the CSEM distribution plot chart that was created using the data in table 8.G.13, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 to 2900 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 2200). 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.G.13 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

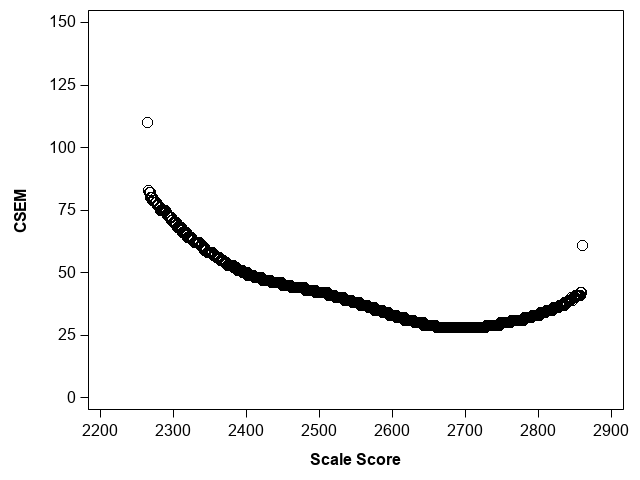


Figure 8.G. Scale score CSEM distribution plots—mathematics, grade eight

Table 8.G. Scale Score CSEM Distribution—Mathematics, Grade Eight

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [25, 30) | 58,712 | 58,712 | 14% | 14% |
| [30, 35) | 64,638 | 123,350 | 15% | 29% |
| [35, 40) | 62,405 | 185,755 | 15% | 44% |
| [40, 45) | 91,342 | 277,097 | 21% | 65% |
| [45, 50) | 64,149 | 341,246 | 15% | 80% |
| [50, 55) | 25,844 | 367,090 | 6% | 86% |
| [55, 60) | 17,052 | 384,142 | 4% | 90% |
| [60, 65) | 15,997 | 400,139 | 4% | 94% |
| [65, 70) | 5,707 | 405,846 | 1% | 95% |
| [70, 75) | 4,688 | 410,534 | 1% | 96% |
| [75, 80) | 4,217 | 414,751 | <1% | 97% |
| [80, 85) | 1,155 | 415,906 | <1% | 97% |
| [110, 115) | 10,945 | 426,851 | 3% | 100% |

Figure 8.G.14 for grade eleven mathematics presents the CSEM distribution plot chart that was created using the data in table 8.G.14, which immediately follows. Its y-axis shows the CSEM values from 0 to 150 in intervals of 25. Its x-axis shows corresponding scale score values from 2200 to 2900 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 2200). 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.G.14 indicates that the scale scores in the middle were estimated more accurately for the smaller CSEM values.

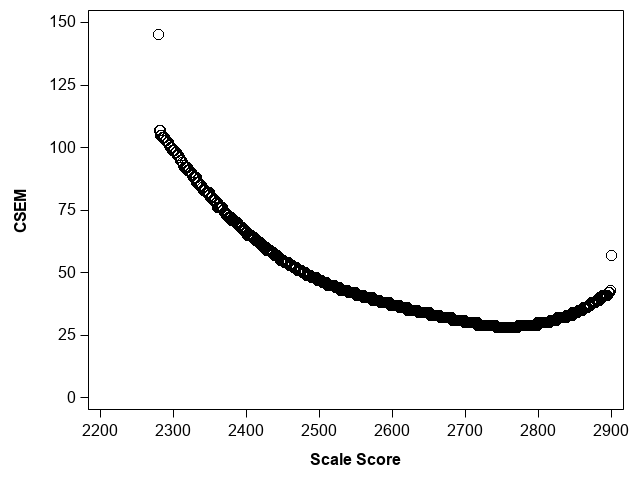


Figure 8.G. Scale score CSEM distribution plots—mathematics, grade eleven

Table 8.G. Scale Score CSEM Distribution—Mathematics, Grade Eleven

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSEM Range** | **N** | **Cumulative Frequency** | **Percent** | **Cumulative Percent** |
| [25, 30) | 34,481 | 34,481 | 8% | 8% |
| [30, 35) | 71,742 | 106,223 | 17% | 24% |
| [35, 40) | 66,719 | 172,942 | 15% | 40% |
| [40, 45) | 61,721 | 234,663 | 14% | 54% |
| [45, 50) | 49,596 | 284,259 | 11% | 65% |
| [50, 55) | 34,950 | 319,209 | 8% | 73% |
| [55, 60) | 28,705 | 347,914 | 7% | 80% |
| [60, 65) | 17,794 | 365,708 | 4% | 84% |
| [65, 70) | 14,552 | 380,260 | 3% | 87% |
| [70, 75) | 11,926 | 392,186 | 3% | 90% |
| [75, 80) | 8,094 | 400,280 | 2% | 92% |
| [80, 85) | 6,797 | 407,077 | 2% | 94% |
| [85, 90) | 5,166 | 412,243 | 1% | 95% |
| [90, 95) | 4,311 | 416,554 | <1% | 96% |
| [95, 100) | 3,266 | 419,820 | <1% | 97% |
| [100, 105) | 2,954 | 422,774 | <1% | 97% |
| [105, 110) | 701 | 423,475 | <1% | 97% |
| [145, 150) | 11,228 | 434,703 | 3% | 100% |

### Appendix 8.H: Analyses of Classification

**Notes for all tables in appendix 8.H:**

* 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.
* After each table, two proportions are reported. The proportion based on the two categories is calculated as the sum of the numbers in the shaded cell in each table. Numbers in shaded cells are also indicated with an asterisk (\*).
* One proportion is based on the four levels and is calculated as the sum of the four diagonal numbers.
* The other proportion is based on the combined two categories, where Standard Not Met and Standard Nearly Met are combined into one category, and Standard Met and Standard Exceeded are combined into the second category.

Table 8.H. Decision Accuracy—ELA, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2115–2366 | \*0.29 | \*0.05 | 0.00 | 0.00 | 0.35 |
| 2367–2431 | \*0.05 | \*0.13 | 0.05 | 0.00 | 0.23 |
| 2432–2489 | 0.00 | 0.05 | \*0.10 | \*0.04 | 0.20 |
| 2490–2650 | 0.00 | 0.00 | \*0.04 | \*0.19 | 0.23 |

All-forms average, estimated proportion correctly classified: four levels = 0.71; combined two categories= 0.89

Table 8.H. Decision Consistency—ELA, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2115–2366 | \*0.28 | \*0.06 | 0.01 | 0.00 | 0.35 |
| 2367–2431 | \*0.06 | \*0.10 | 0.05 | 0.01 | 0.23 |
| 2432–2489 | 0.01 | 0.06 | \*0.08 | \*0.05 | 0.20 |
| 2490–2650 | 0.00 | 0.01 | \*0.04 | \*0.18 | 0.23 |

Alternate form, estimated proportion consistently classified: four levels = 0.63; combined two categories = 0.85

Table 8.H. Decision Accuracy—ELA, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2140–2415 | \*0.32 | \*0.05 | 0.00 | 0.00 | 0.37 |
| 2416–2472 | \*0.05 | \*0.09 | 0.05 | 0.00 | 0.19 |
| 2473–2532 | 0.01 | 0.05 | \*0.10 | \*0.04 | 0.20 |
| 2533–2690 | 0.00 | 0.00 | \*0.04 | \*0.20 | 0.24 |

All-forms average, estimated proportion correctly classified: four levels = 0.71; combined two categories = 0.89

Table 8.H. Decision Consistency—ELA, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2140–2415 | \*0.30 | \*0.06 | 0.02 | 0.00 | 0.37 |
| 2416–2472 | \*0.06 | \*0.07 | 0.05 | 0.01 | 0.19 |
| 2473–2532 | 0.02 | 0.05 | \*0.08 | \*0.05 | 0.20 |
| 2533–2690 | 0.00 | 0.01 | \*0.05 | \*0.19 | 0.24 |

Alternate form, estimated proportion consistently classified: four levels = 0.63; combined two categories = 0.84

Table 8.H. Decision Accuracy—ELA, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | \*0.10 | 0.05 | 0.00 | 0.19 |
| 2502–2581 | 0.00 | 0.05 | \*0.16 | \*0.04 | 0.25 |
| 2582–2730 | 0.00 | 0.00 | \*0.04 | \*0.18 | 0.22 |

All-forms average, estimated proportion correctly classified: four levels = 0.72; combined two categories = 0.89

Table 8.H. Decision Consistency—ELA, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 | \*0.07 | 0.06 | 0.01 | 0.19 |
| 2502–2581 | 0.02 | 0.06 | \*0.12 | \*0.06 | 0.25 |
| 2582–2730 | 0.00 | 0.00 | \*0.05 | \*0.17 | 0.22 |

Alternate form, estimated proportion consistently classified: four levels = 0.63; combined two categories = 0.85

Table 8.H. Decision Accuracy—ELA, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2230–2456 | \*0.25 | \*0.05 | 0.00 | 0.00 | 0.30 |
| 2457–2530 | \*0.04 | \*0.15 | 0.05 | 0.00 | 0.24 |
| 2531–2617 | 0.00 | 0.05 | \*0.19 | \*0.03 | 0.28 |
| 2618–2770 | 0.00 | 0.00 | \*0.04 | \*0.14 | 0.18 |

All-forms average, estimated proportion correctly classified: four levels = 0.73; combined two categories = 0.89

Table 8.H. Decision Consistency—ELA, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2230–2456 | \*0.24 | \*0.06 | 0.01 | 0.00 | 0.30 |
| 2457–2530 | \*0.06 | \*0.12 | 0.06 | 0.00 | 0.24 |
| 2531–2617 | 0.01 | 0.07 | \*0.15 | \*0.05 | \*0.28 |
| 2618–2770 | 0.00 | 0.00 | \*0.05 | \*0.13 | \*0.18 |

Alternate form, estimated proportion consistently classified: four levels = 0.64; combined two categories = 0.85

Table 8.H. Decision Accuracy—ELA, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2260–2478 | \*0.27 | \*0.04 | 0.00 | 0.00 | 0.31 |
| 2479–2551 | \*0.04 | \*0.12 | 0.05 | 0.00 | 0.22 |
| 2552–2648 | 0.00 | 0.05 | \*0.20 | \*0.04 | 0.30 |
| 2649–2810 | 0.00 | 0.00 | \*0.04 | \*0.14 | 0.17 |

All-forms average, estimated proportion correctly classified: four levels = 0.73; combined two categories = 0.89

Table 8.H. Decision Consistency—ELA, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2260–2478 | \*0.26 | \*0.05 | 0.00 | 0.00 | 0.31 |
| 2479–2551 | \*0.06 | \*0.09 | 0.06 | 0.01 | 0.22 |
| 2552–2648 | 0.01 | 0.06 | \*0.16 | \*0.06 | 0.30 |
| 2649–2810 | 0.00 | 0.00 | \*0.05 | \*0.13 | 0.17 |

Alternate form, estimated proportion consistently classified: four levels = 0.64; combined two categories = 0.85

Table 8.H. Decision Accuracy—ELA, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2290–2486 | \*0.26 | \*0.04 | 0.00 | 0.00 | 0.30 |
| 2487–2566 | \*0.04 | \*0.14 | 0.06 | 0.00 | 0.24 |
| 2567–2667 | 0.00 | 0.05 | \*0.21 | \*0.04 | 0.30 |
| 2668–2850 | 0.00 | 0.00 | \*0.04 | \*0.12 | 0.16 |

All-forms average, estimated proportion correctly classified: four levels = 0.73; combined two categories = 0.89

Table 8.H. Decision Consistency—ELA, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2290–2486 | \*0.25 | \*0.05 | 0.00 | 0.00 | 0.30 |
| 2487–2566 | \*0.06 | \*0.11 | 0.07 | 0.01 | 0.24 |
| 2567–2667 | 0.01 | 0.06 | \*0.17 | \*0.06 | 0.30 |
| 2668–2850 | 0.00 | 0.00 | \*0.05 | \*0.11 | 0.16 |

Alternate form, estimated proportion consistently classified: four levels = 0.64; combined two categories = 0.85

Table 8.H. Decision Accuracy—ELA, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2300–2492 | \*0.20 | \*0.03 | 0.00 | 0.00 | 0.23 |
| 2493–2582 | \*0.03 | \*0.13 | 0.05 | 0.00 | 0.21 |
| 2583–2681 | 0.00 | 0.05 | \*0.18 | \*0.06 | 0.30 |
| 2682–2900 | 0.00 | 0.00 | \*0.04 | \*0.22 | 0.26 |

All-forms average, estimated proportion correctly classified: four levels = 0.73; combined two categories = 0.89

Table 8.H. Decision Consistency—ELA, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2300–2492 | \*0.19 | \*0.04 | 0.00 | 0.00 | 0.23 |
| 2493–2582 | \*0.05 | \*0.10 | 0.06 | 0.01 | 0.21 |
| 2583–2681 | 0.01 | 0.06 | \*0.15 | \*0.08 | 0.30 |
| 2682–2900 | 0.00 | 0.00 | \*0.06 | \*0.21 | 0.26 |

Alternate form, estimated proportion consistently classified: four levels = 0.64; combined two categories = 0.86

Table 8.H. Decision Accuracy—Mathematics, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2190–2380 | \*0.29 | \*0.04 | 0.00 | 0.00 | 0.32 |
| 2381–2435 | \*0.04 | \*0.12 | 0.05 | 0.00 | 0.22 |
| 2436–2500 | 0.00 | 0.05 | \*0.16 | \*0.04 | 0.25 |
| 2501–2660 | 0.00 | 0.00 | \*0.03 | \*0.18 | 0.21 |

All-forms average, estimated proportion correctly classified: four levels = 0.75; combined two categories = 0.90

Table 8.H. Decision Consistency—Mathematics, Grade Three

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2190–2380 | \*0.28 | \*0.05 | 0.00 | 0.00 | 0.32 |
| 2381–2435 | \*0.06 | \*0.10 | 0.06 | 0.01 | 0.22 |
| 2436–2500 | 0.01 | 0.06 | \*0.13 | \*0.05 | 0.25 |
| 2501–2660 | 0.00 | 0.00 | \*0.04 | \*0.17 | 0.21 |

Alternate form, estimated proportion consistently classified: four levels = 0.67; combined two categories = 0.87

Table 8.H. Decision Accuracy—Mathematics, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2205–2410 | \*0.27 | \*0.04 | 0.00 | 0.00 | 0.31 |
| 2411–2484 | \*0.04 | \*0.19 | 0.05 | 0.00 | 0.28 |
| 2485–2548 | 0.00 | 0.05 | \*0.14 | \*0.03 | 0.22 |
| 2549–2700 | 0.00 | 0.00 | \*0.03 | \*0.16 | 0.19 |

All-forms average, estimated proportion correctly classified: four levels = 0.75; combined two categories = 0.90

Table 8.H. Decision Consistency—Mathematics, Grade Four

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2205–2410 | \*0.25 | \*0.05 | 0.00 | 0.00 | 0.31 |
| 2411–2484 | \*0.06 | \*0.15 | 0.06 | 0.01 | 0.28 |
| 2485–2548 | 0.00 | 0.06 | \*0.11 | \*0.05 | 0.22 |
| 2549–2700 | 0.00 | 0.00 | \*0.04 | \*0.15 | 0.19 |

Alternate form, estimated proportion consistently classified: four levels = 0.67; combined two categories = 0.87

Table 8.H. Decision Accuracy—Mathematics, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2220–2454 | \*0.35 | \*0.05 | 0.00 | 0.00 | 0.40 |
| 2455–2527 | \*0.05 | \*0.15 | 0.04 | 0.00 | 0.25 |
| 2528–2578 | 0.00 | 0.05 | \*0.08 | \*0.03 | 0.15 |
| 2579–2740 | 0.00 | 0.00 | \*0.04 | \*0.16 | 0.20 |

All-forms average, estimated proportion correctly classified: four levels = 0.74; combined two categories = 0.91

Table 8.H. Decision Consistency—Mathematics, Grade Five

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2220–2454 | \*0.33 | \*0.06 | 0.01 | 0.00 | 0.40 |
| 2455–2527 | \*0.06 | \*0.12 | 0.05 | 0.01 | 0.25 |
| 2528–2578 | 0.01 | 0.05 | \*0.06 | \*0.04 | 0.15 |
| 2579–2740 | 0.00 | 0.01 | \*0.04 | \*0.15 | 0.20 |

Alternate form, estimated proportion consistently classified: four levels = 0.66; combined two categories = 0.87

Table 8.H. Decision Accuracy—Mathematics, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2235–2472 | \*0.36 | \*0.04 | 0.00 | 0.00 | 0.41 |
| 2473–2551 | \*0.05 | \*0.15 | 0.05 | 0.01 | 0.25 |
| 2552–2609 | 0.00 | 0.04 | \*0.08 | \*0.03 | 0.16 |
| 2610–2780 | 0.00 | 0.00 | \*0.03 | \*0.16 | 0.18 |

All-forms average, estimated proportion correctly classified: four levels = 0.75; combined two categories = 0.90

Table 8.H. Decision Consistency—Mathematics, Grade Six

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2235–2472 | \*0.35 | \*0.06 | 0.00 | 0.00 | 0.41 |
| 2473–2551 | \*0.07 | \*0.12 | 0.05 | 0.02 | 0.25 |
| 2552–2609 | 0.00 | 0.05 | \*0.06 | \*0.04 | 0.16 |
| 2610–2780 | 0.00 | 0.00 | \*0.03 | \*0.15 | 0.18 |

Alternate form, estimated proportion consistently classified: four levels = 0.67; combined two categories = 0.87

Table 8.H. Decision Accuracy—Mathematics, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2250–2483 | \*0.37 | \*0.05 | 0.00 | 0.00 | 0.42 |
| 2484–2566 | \*0.05 | \*0.14 | 0.05 | 0.00 | 0.25 |
| 2567–2634 | 0.00 | 0.05 | \*0.09 | \*0.03 | 0.17 |
| 2635–2820 | 0.00 | 0.00 | \*0.03 | \*0.14 | 0.17 |

All-forms average, estimated proportion correctly classified: four levels = 0.74; combined two categories = 0.90

Table 8.H. Decision Consistency—Mathematics, Grade Seven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2250–2483 | \*0.35 | \*0.06 | 0.00 | 0.00 | 0.42 |
| 2484–2566 | \*0.07 | \*0.11 | 0.05 | 0.01 | 0.25 |
| 2567–2634 | 0.01 | 0.05 | \*0.07 | \*0.04 | 0.17 |
| 2635–2820 | 0.00 | 0.00 | \*0.04 | \*0.13 | 0.17 |

Alternate form, estimated proportion consistently classified: four levels = 0.66; combined two categories = 0.87

Table 8.H. Decision Accuracy—Mathematics, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2265–2503 | \*0.41 | \*0.05 | 0.00 | 0.00 | 0.47 |
| 2504–2585 | \*0.05 | \*0.11 | 0.04 | 0.01 | 0.22 |
| 2586–2652 | 0.00 | 0.04 | \*0.06 | \*0.03 | 0.13 |
| 2653–2860 | 0.00 | 0.00 | \*0.03 | \*0.15 | 0.18 |

All-forms average, estimated proportion correctly classified: four levels = 0.74; combined two categories = 0.91

Table 8.H. Decision Consistency—Mathematics, Grade Eight

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2265–2503 | \*0.39 | \*0.06 | 0.01 | 0.00 | 0.47 |
| 2504–2585 | \*0.07 | \*0.09 | 0.05 | 0.02 | 0.22 |
| 2586–2652 | 0.01 | 0.04 | \*0.05 | \*0.04 | 0.13 |
| 2653–2860 | 0.00 | 0.01 | \*0.03 | \*0.14 | 0.18 |

Alternate form, estimated proportion consistently classified: four levels = 0.67; combined two categories = 0.87

Table 8.H. Decision Accuracy—Mathematics, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2280–2542 | \*0.45 | \*0.05 | 0.00 | 0.00 | 0.51 |
| 2543–2627 | \*0.06 | \*0.11 | 0.04 | 0.00 | 0.21 |
| 2628–2717 | 0.00 | 0.05 | \*0.09 | \*0.02 | 0.16 |
| 2718–2900 | 0.00 | 0.00 | \*0.03 | \*0.09 | 0.12 |

All-forms average, estimated proportion correctly classified: four levels = 0.74; combined two categories = 0.91

Table 8.H. Decision Consistency—Mathematics, Grade Eleven

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Placement Score** | **Standard Not Met** | **Standard Nearly Met** | **Standard Met** | **Standard Exceeded** | **Category Total** |
| 2280–2542 | \*0.43 | \*0.07 | 0.01 | 0.00 | 0.51 |
| 2543–2627 | \*0.07 | \*0.08 | 0.05 | 0.01 | 0.21 |
| 2628–2717 | 0.01 | 0.05 | \*0.07 | \*0.03 | 0.16 |
| 2718–2900 | 0.00 | 0.00 | \*0.03 | \*0.09 | 0.12 |

Alternate form, estimated proportion consistently classified: four levels = 0.67; combined two categories = 0.87

### Appendix 8.I: Interrater Reliability

**Note:** In table 8.I.1 through table 8.I.14, numbers in the *Student N* column indicate students who received valid ratings.

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295225 | 2 | 74 | 0.53 | 85.14 | 14.86 | 100.00 |
| 2 | VH295564 | 2 | 52 | 0.83 | 76.92 | 23.08 | 100.00 |
| 3 | VH295658 | 2 | 81 | 0.78 | 82.72 | 17.28 | 100.00 |
| 4 | VH295688 | 2 | 59 | 0.59 | 76.27 | 23.73 | 100.00 |
| 5 | VH295711 | 2 | 136 | 0.77 | 71.32 | 28.68 | 100.00 |
| 6 | VH295877 | 2 | 68 | 0.75 | 79.41 | 20.59 | 100.00 |
| 7 | VH295995 | 2 | 107 | 0.72 | 79.44 | 20.56 | 100.00 |
| 8 | VR552691 | 2 | 63 | 0.74 | 84.13 | 15.87 | 100.00 |
| 9 | VR552871 | 2 | 1,310 | 0.71 | 72.37 | 27.63 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295257 | 2 | 69 | 0.80 | 81.16 | 18.84 | 100.00 |
| 2 | VH295423 | 2 | 71 | 0.89 | 87.32 | 12.68 | 100.00 |
| 3 | VH295492 | 2 | 854 | 0.75 | 76.11 | 23.89 | 100.00 |
| 4 | VH295705 | 2 | 56 | 0.69 | 80.36 | 19.64 | 100.00 |
| 5 | VH295779 | 2 | 133 | 0.68 | 69.17 | 30.83 | 100.00 |
| 6 | VH945438 | 2 | 69 | 0.64 | 66.67 | 33.33 | 100.00 |
| 7 | VH945587 | 2 | 252 | 0.77 | 72.62 | 27.38 | 100.00 |
| 8 | VR552626 | 2 | 1,118 | 0.81 | 79.16 | 20.84 | 100.00 |
| 9 | VR552721 | 2 | 997 | 0.82 | 77.43 | 22.57 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295404 | 2 | 57 | 0.75 | 73.68 | 26.32 | 100.00 |
| 2 | VH295807 | 2 | 167 | 0.76 | 73.65 | 26.35 | 100.00 |
| 3 | VH296044 | 2 | 103 | 0.71 | 67.96 | 32.04 | 100.00 |
| 4 | VH296080 | 2 | 179 | 0.74 | 72.07 | 27.93 | 100.00 |
| 5 | VH945516 | 2 | 1,052 | 0.71 | 64.45 | 35.55 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH288262 | 2 | 320 | 0.56 | 69.69 | 30.31 | 100.00 |
| 2 | VH295677 | 2 | 1,089 | 0.71 | 75.39 | 24.61 | 100.00 |
| 3 | VH295872 | 2 | 63 | 0.83 | 79.37 | 20.63 | 100.00 |
| 4 | VH296196 | 2 | 1,816 | 0.63 | 68.72 | 31.28 | 100.00 |
| 5 | VH296198 | 2 | 1,008 | 0.67 | 66.77 | 33.23 | 100.00 |
| 6 | VH296290 | 2 | 114 | 0.36 | 60.53 | 39.47 | 100.00 |
| 7 | VH296306 | 2 | 322 | 0.52 | 67.08 | 32.92 | 100.00 |
| 8 | VH296308 | 2 | 164 | 0.50 | 66.46 | 33.54 | 100.00 |
| 9 | VH296310 | 2 | 1,064 | 0.68 | 73.21 | 26.79 | 100.00 |
| 10 | VH296334 | 2 | 89 | 0.75 | 77.53 | 22.47 | 100.00 |
| 11 | VH296341 | 2 | 77 | 0.55 | 59.74 | 40.26 | 100.00 |
| 12 | VH296354 | 2 | 139 | 0.59 | 75.54 | 24.46 | 100.00 |
| 13 | VH296362 | 2 | 126 | 0.63 | 68.25 | 31.75 | 100.00 |
| 14 | VH296363 | 2 | 242 | 0.58 | 72.31 | 27.69 | 100.00 |
| 15 | VH296398 | 2 | 80 | 0.61 | 61.25 | 38.75 | 100.00 |
| 16 | VH296401 | 2 | 300 | 0.67 | 74.33 | 25.67 | 100.00 |
| 17 | VH296422 | 2 | 72 | 0.48 | 70.83 | 29.17 | 100.00 |
| 18 | VH296445 | 2 | 386 | 0.65 | 84.20 | 15.80 | 100.00 |
| 19 | VH296446 | 2 | 152 | 0.59 | 69.74 | 30.26 | 100.00 |
| 20 | VH296451 | 2 | 112 | 0.78 | 84.82 | 15.18 | 100.00 |
| 21 | VH296454 | 2 | 305 | 0.48 | 71.48 | 28.52 | 100.00 |
| 22 | VH296504 | 2 | 382 | 0.58 | 71.73 | 28.27 | 100.00 |
| 23 | VH296523 | 2 | 79 | 0.37 | 65.82 | 34.18 | 100.00 |
| 24 | VH296570 | 2 | 2,824 | 0.68 | 73.94 | 26.06 | 100.00 |
| 25 | VH296674 | 2 | 792 | 0.65 | 73.86 | 26.14 | 100.00 |
| 26 | VH795513 | 2 | 71 | 0.61 | 71.83 | 28.17 | 100.00 |
| 27 | VH795514 | 2 | 217 | 0.61 | 71.43 | 28.57 | 100.00 |
| 28 | VH795515 | 2 | 958 | 0.82 | 86.74 | 13.26 | 100.00 |
| 29 | VH795516 | 2 | 73 | 0.70 | 72.60 | 27.40 | 100.00 |
| 30 | VH795517 | 2 | 1,415 | 0.65 | 75.69 | 24.31 | 100.00 |
| 31 | VH795518 | 2 | 78 | 0.65 | 66.67 | 33.33 | 100.00 |
| 32 | VH795519 | 2 | 82 | 0.57 | 75.61 | 24.39 | 100.00 |
| 33 | VH795520 | 2 | 1,532 | 0.75 | 74.09 | 25.91 | 100.00 |
| 34 | VH795521 | 2 | 67 | 0.63 | 74.63 | 25.37 | 100.00 |
| 35 | VH795522 | 2 | 74 | 0.59 | 70.27 | 29.73 | 100.00 |
| 36 | VH795523 | 2 | 72 | 0.48 | 66.67 | 33.33 | 100.00 |
| 37 | VH795524 | 2 | 117 | 0.59 | 71.79 | 28.21 | 100.00 |
| 38 | VH945541 | 2 | 1,126 | 0.72 | 66.25 | 33.75 | 100.00 |
| 39 | VR552646 | 2 | 1,439 | 0.76 | 72.13 | 27.87 | 100.00 |
| 40 | VR552731 | 2 | 1,761 | 0.68 | 74.62 | 25.38 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295306 | 2 | 805 | 0.79 | 71.30 | 28.70 | 100.00 |
| 2 | VH295325 | 2 | 821 | 0.80 | 71.62 | 28.38 | 100.00 |
| 3 | VH295371 | 2 | 138 | 0.60 | 73.91 | 26.09 | 100.00 |
| 4 | VH295401 | 2 | 363 | 0.79 | 74.66 | 25.34 | 100.00 |
| 5 | VH295505 | 2 | 362 | 0.78 | 70.72 | 29.28 | 100.00 |
| 6 | VH295526 | 2 | 355 | 0.83 | 78.59 | 21.41 | 100.00 |
| 7 | VH295635 | 2 | 368 | 0.83 | 82.07 | 17.93 | 100.00 |
| 8 | VH295717 | 2 | 820 | 0.76 | 76.83 | 23.17 | 100.00 |
| 9 | VH295759 | 2 | 822 | 0.82 | 74.82 | 25.18 | 100.00 |
| 10 | VH295909 | 2 | 64 | 0.63 | 60.94 | 39.06 | 100.00 |
| 11 | VH296116 | 2 | 1,076 | 0.81 | 73.33 | 26.67 | 100.00 |
| 12 | VH297495 | 2 | 217 | 0.58 | 81.57 | 18.43 | 100.00 |
| 13 | VH297498 | 2 | 161 | 0.67 | 71.43 | 28.57 | 100.00 |
| 14 | VH297569 | 2 | 281 | 0.54 | 71.89 | 28.11 | 100.00 |
| 15 | VH297601 | 2 | 62 | 0.65 | 79.03 | 20.97 | 100.00 |
| 16 | VH297700 | 2 | 1,914 | 0.57 | 79.31 | 20.69 | 100.00 |
| 17 | VH297730 | 2 | 1,916 | 0.62 | 84.50 | 15.50 | 100.00 |
| 18 | VH297739 | 2 | 219 | 0.51 | 73.97 | 26.03 | 100.00 |
| 19 | VH297745 | 2 | 112 | 0.66 | 75.00 | 25.00 | 100.00 |
| 20 | VH297764 | 2 | 78 | 0.58 | 67.95 | 32.05 | 100.00 |
| 21 | VH297772 | 2 | 220 | 0.53 | 70.45 | 29.55 | 100.00 |
| 22 | VH297775 | 2 | 553 | 0.65 | 75.23 | 24.77 | 100.00 |
| 23 | VH297778 | 2 | 301 | 0.69 | 73.42 | 26.58 | 100.00 |
| 24 | VH297780 | 2 | 85 | 0.68 | 64.71 | 35.29 | 100.00 |
| 25 | VH297802 | 2 | 253 | 0.66 | 81.03 | 18.97 | 100.00 |
| 26 | VH297843 | 2 | 4,037 | 0.48 | 67.95 | 32.05 | 100.00 |
| 27 | VH297856 | 2 | 118 | 0.57 | 64.41 | 35.59 | 100.00 |
| 28 | VH297857 | 2 | 387 | 0.62 | 68.22 | 31.78 | 100.00 |
| 29 | VH297882 | 2 | 168 | 0.74 | 77.38 | 22.62 | 100.00 |
| 30 | VH297968 | 2 | 108 | 0.66 | 67.59 | 32.41 | 100.00 |
| 31 | VH298148 | 2 | 70 | 0.70 | 81.43 | 18.57 | 100.00 |
| 32 | VH298150 | 2 | 703 | 0.71 | 81.22 | 18.78 | 100.00 |
| 33 | VH490748 | 2 | 1,977 | 0.59 | 58.88 | 41.12 | 100.00 |
| 34 | VH490766 | 2 | 704 | 0.46 | 65.77 | 34.23 | 100.00 |
| 35 | VH490767 | 2 | 164 | 0.65 | 65.85 | 34.15 | 100.00 |
| 36 | VH795388 | 2 | 1,257 | 0.68 | 75.42 | 24.58 | 100.00 |
| 37 | VH795390 | 2 | 58 | 0.74 | 74.14 | 25.86 | 100.00 |
| 38 | VH795393 | 2 | 170 | 0.64 | 73.53 | 26.47 | 100.00 |
| 39 | VH795450 | 2 | 107 | 0.78 | 81.31 | 18.69 | 100.00 |
| 40 | VH795475 | 2 | 1,416 | 0.67 | 79.17 | 20.83 | 100.00 |
| 41 | VH945458 | 2 | 78 | 0.77 | 67.95 | 32.05 | 100.00 |
| 42 | VH945572 | 2 | 341 | 0.78 | 73.02 | 26.98 | 100.00 |
| 43 | VR552666 | 2 | 115 | 0.77 | 66.96 | 33.04 | 100.00 |
| 44 | VR552816 | 2 | 94 | 0.81 | 75.53 | 24.47 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH279615 | 2 | 581 | 0.73 | 74.87 | 25.13 | 100.00 |
| 2 | VH279677 | 2 | 336 | 0.72 | 69.35 | 30.65 | 100.00 |
| 3 | VH279694 | 2 | 959 | 0.67 | 71.64 | 28.36 | 100.00 |
| 4 | VH279904 | 2 | 1,519 | 0.61 | 75.38 | 24.62 | 100.00 |
| 5 | VH279941 | 2 | 790 | 0.69 | 73.04 | 26.96 | 100.00 |
| 6 | VH280252 | 2 | 824 | 0.61 | 73.42 | 26.58 | 100.00 |
| 7 | VH280255 | 2 | 1,094 | 0.69 | 75.78 | 24.22 | 100.00 |
| 8 | VH280258 | 2 | 822 | 0.68 | 73.11 | 26.89 | 100.00 |
| 9 | VH280276 | 2 | 50 | 0.81 | 86.00 | 14.00 | 100.00 |
| 10 | VH280408 | 2 | 2,210 | 0.47 | 70.59 | 29.41 | 100.00 |
| 11 | VH280491 | 2 | 480 | 0.52 | 61.67 | 38.33 | 100.00 |
| 12 | VH280500 | 2 | 323 | 0.66 | 70.59 | 29.41 | 100.00 |
| 13 | VH280503 | 2 | 5,434 | 0.56 | 69.71 | 30.29 | 100.00 |
| 14 | VH280507 | 2 | 313 | 0.57 | 69.33 | 30.67 | 100.00 |
| 15 | VH280518 | 2 | 1,070 | 0.70 | 67.29 | 32.71 | 100.00 |
| 16 | VH280522 | 2 | 834 | 0.80 | 79.86 | 20.14 | 100.00 |
| 17 | VH280622 | 2 | 888 | 0.54 | 69.59 | 30.41 | 100.00 |
| 18 | VH280685 | 2 | 620 | 0.71 | 78.55 | 21.45 | 100.00 |
| 19 | VH280871 | 2 | 461 | 0.68 | 72.02 | 27.98 | 100.00 |
| 20 | VH281583 | 2 | 72 | 0.80 | 83.33 | 16.67 | 100.00 |
| 21 | VH281717 | 2 | 65 | 0.74 | 72.31 | 27.69 | 100.00 |
| 22 | VH282793 | 2 | 50 | 0.74 | 80.00 | 20.00 | 100.00 |
| 23 | VH282833 | 2 | 520 | 0.70 | 75.38 | 24.62 | 100.00 |
| 24 | VH295291 | 2 | 74 | 0.70 | 67.57 | 32.43 | 100.00 |
| 25 | VH295298 | 2 | 376 | 0.78 | 71.54 | 28.46 | 100.00 |
| 26 | VH295355 | 2 | 838 | 0.74 | 69.21 | 30.79 | 100.00 |
| 27 | VH295463 | 2 | 859 | 0.78 | 72.88 | 27.12 | 100.00 |
| 28 | VH295517 | 2 | 59 | 0.67 | 76.27 | 23.73 | 100.00 |
| 29 | VH295601 | 2 | 51 | 0.86 | 78.43 | 21.57 | 100.00 |
| 30 | VH295622 | 2 | 376 | 0.71 | 70.21 | 29.79 | 100.00 |
| 31 | VH295843 | 2 | 843 | 0.80 | 72.72 | 27.28 | 100.00 |
| 32 | VH295975 | 2 | 52 | 0.70 | 71.15 | 28.85 | 100.00 |
| 33 | VH296021 | 2 | 55 | 0.77 | 69.09 | 30.91 | 100.00 |
| 34 | VH296023 | 2 | 63 | 0.70 | 63.49 | 36.51 | 100.00 |
| 35 | VH296063 | 2 | 56 | 0.87 | 80.36 | 19.64 | 100.00 |
| 36 | VH296095 | 2 | 356 | 0.83 | 75.28 | 24.72 | 100.00 |
| 37 | VH490980 | 2 | 1,739 | 0.68 | 73.49 | 26.51 | 100.00 |
| 38 | VH795225 | 2 | 573 | 0.59 | 68.94 | 31.06 | 100.00 |
| 39 | VH795310 | 2 | 166 | 0.57 | 76.51 | 23.49 | 100.00 |
| 40 | VH795314 | 2 | 140 | 0.66 | 85.00 | 15.00 | 100.00 |
| 41 | VR552906 | 2 | 590 | 0.67 | 62.37 | 37.63 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH280370 | 2 | 961 | 0.72 | 70.86 | 29.14 | 100.00 |
| 2 | VH289608 | 2 | 91 | 0.75 | 73.63 | 26.37 | 100.00 |
| 3 | VH289738 | 2 | 96 | 0.71 | 77.08 | 22.92 | 100.00 |
| 4 | VH289741 | 2 | 104 | 0.63 | 67.31 | 32.69 | 100.00 |
| 5 | VH289751 | 2 | 56 | 0.77 | 80.36 | 19.64 | 100.00 |
| 6 | VH289899 | 2 | 1,057 | 0.71 | 71.52 | 28.48 | 100.00 |
| 7 | VH289907 | 2 | 1,174 | 0.63 | 70.70 | 29.30 | 100.00 |
| 8 | VH289908 | 2 | 211 | 0.58 | 61.61 | 38.39 | 100.00 |
| 9 | VH290102 | 2 | 94 | 0.64 | 67.02 | 32.98 | 100.00 |
| 10 | VH290104 | 2 | 148 | 0.48 | 60.81 | 39.19 | 100.00 |
| 11 | VH290189 | 2 | 114 | 0.66 | 66.67 | 33.33 | 100.00 |
| 12 | VH290293 | 2 | 50 | 0.67 | 66.00 | 34.00 | 100.00 |
| 13 | VH290294 | 2 | 398 | 0.91 | 86.43 | 13.57 | 100.00 |
| 14 | VH290296 | 2 | 954 | 0.78 | 76.83 | 23.17 | 100.00 |
| 15 | VH290304 | 2 | 170 | 0.73 | 70.59 | 29.41 | 100.00 |
| 16 | VH290311 | 2 | 452 | 0.71 | 78.76 | 21.24 | 100.00 |
| 17 | VH290312 | 2 | 61 | 0.80 | 80.33 | 19.67 | 100.00 |
| 18 | VH290314 | 2 | 55 | 0.76 | 78.18 | 21.82 | 100.00 |
| 19 | VH290316 | 2 | 675 | 0.65 | 72.30 | 27.70 | 100.00 |
| 20 | VH290481 | 2 | 81 | 0.77 | 72.84 | 27.16 | 100.00 |
| 21 | VH290483 | 2 | 70 | 0.80 | 75.71 | 24.29 | 100.00 |
| 22 | VH290487 | 2 | 200 | 0.60 | 72.00 | 28.00 | 100.00 |
| 23 | VH290515 | 2 | 254 | 0.66 | 71.26 | 28.74 | 100.00 |
| 24 | VH290517 | 2 | 1,937 | 0.53 | 68.51 | 31.49 | 100.00 |
| 25 | VH290560 | 2 | 131 | 0.83 | 82.44 | 17.56 | 100.00 |
| 26 | VH290625 | 2 | 1,574 | 0.68 | 72.87 | 27.13 | 100.00 |
| 27 | VH290628 | 2 | 53 | 0.74 | 75.47 | 24.53 | 100.00 |
| 28 | VH290631 | 2 | 116 | 0.75 | 75.86 | 24.14 | 100.00 |
| 29 | VH290632 | 2 | 1,085 | 0.78 | 75.02 | 24.98 | 100.00 |
| 30 | VH290839 | 2 | 140 | 0.77 | 75.00 | 25.00 | 100.00 |
| 31 | VH290848 | 2 | 788 | 0.62 | 70.81 | 29.19 | 100.00 |
| 32 | VH290894 | 2 | 1,532 | 0.56 | 69.45 | 30.55 | 100.00 |
| 33 | VH290895 | 2 | 483 | 0.76 | 81.16 | 18.84 | 100.00 |
| 34 | VH290919 | 2 | 1,331 | 0.73 | 77.91 | 22.09 | 100.00 |
| 35 | VH290920 | 2 | 165 | 0.74 | 76.97 | 23.03 | 100.00 |
| 36 | VH290940 | 2 | 155 | 0.67 | 73.55 | 26.45 | 100.00 |
| 37 | VH290942 | 2 | 59 | 0.64 | 66.10 | 33.90 | 100.00 |
| 38 | VH290943 | 2 | 64 | 0.74 | 73.44 | 26.56 | 100.00 |
| 39 | VH290944 | 2 | 268 | 0.72 | 78.73 | 21.27 | 100.00 |
| 40 | VH290946 | 2 | 67 | 0.81 | 80.60 | 19.40 | 100.00 |
| 41 | VH290947 | 2 | 171 | 0.70 | 73.10 | 26.90 | 100.00 |
| 42 | VH290950 | 2 | 131 | 0.69 | 74.81 | 25.19 | 100.00 |
| 43 | VH291744 | 2 | 58 | 0.75 | 72.41 | 27.59 | 100.00 |
| 44 | VH292234 | 2 | 55 | 0.85 | 80.00 | 20.00 | 100.00 |
| 45 | VH292277 | 2 | 424 | 0.76 | 78.54 | 21.46 | 100.00 |
| 46 | VH292620 | 2 | 53 | 0.72 | 71.70 | 28.30 | 100.00 |
| 47 | VH292763 | 2 | 594 | 0.72 | 76.26 | 23.74 | 100.00 |
| 48 | VH292883 | 2 | 52 | 0.73 | 73.08 | 26.92 | 100.00 |
| 49 | VH293122 | 2 | 486 | 0.72 | 75.10 | 24.90 | 100.00 |
| 50 | VH293258 | 2 | 487 | 0.76 | 79.06 | 20.94 | 100.00 |
| 51 | VH293313 | 2 | 651 | 0.65 | 81.72 | 18.28 | 100.00 |
| 52 | VH293796 | 2 | 511 | 0.77 | 78.28 | 21.72 | 100.00 |
| 53 | VH293930 | 2 | 75 | 0.80 | 94.67 | 5.33 | 100.00 |
| 54 | VH294197 | 2 | 497 | 0.76 | 76.26 | 23.74 | 100.00 |
| 55 | VH295243 | 2 | 1,046 | 0.77 | 71.32 | 28.68 | 100.00 |
| 56 | VH295284 | 2 | 1,278 | 0.75 | 67.61 | 32.39 | 100.00 |
| 57 | VH295362 | 2 | 1,046 | 0.79 | 78.11 | 21.89 | 100.00 |
| 58 | VH295390 | 2 | 1,245 | 0.78 | 70.92 | 29.08 | 100.00 |
| 59 | VH295499 | 2 | 1,235 | 0.70 | 63.89 | 36.11 | 100.00 |
| 60 | VH295547 | 2 | 53 | 0.77 | 67.92 | 32.08 | 100.00 |
| 61 | VH295615 | 2 | 1,292 | 0.77 | 69.35 | 30.65 | 100.00 |
| 62 | VH295649 | 2 | 78 | 0.68 | 62.82 | 37.18 | 100.00 |
| 63 | VH295744 | 2 | 1,253 | 0.74 | 72.15 | 27.85 | 100.00 |
| 64 | VH295802 | 2 | 1,293 | 0.80 | 72.47 | 27.53 | 100.00 |
| 65 | VH295814 | 2 | 50 | 0.76 | 68.00 | 32.00 | 100.00 |
| 66 | VH295887 | 2 | 1,200 | 0.81 | 74.00 | 26.00 | 100.00 |
| 67 | VH296003 | 2 | 83 | 0.90 | 86.75 | 13.25 | 100.00 |
| 68 | VH296052 | 2 | 61 | 0.73 | 60.66 | 39.34 | 100.00 |
| 69 | VH491218 | 2 | 172 | 0.52 | 64.53 | 35.47 | 100.00 |
| 70 | VH491243 | 2 | 257 | 0.57 | 64.20 | 35.80 | 100.00 |
| 71 | VH491245 | 2 | 94 | 0.56 | 62.77 | 37.23 | 100.00 |
| 72 | VH491262 | 2 | 103 | 0.64 | 68.93 | 31.07 | 100.00 |
| 73 | VH648736 | 2 | 79 | 0.64 | 62.03 | 37.97 | 100.00 |
| 74 | VH795180 | 2 | 55 | 0.67 | 81.82 | 18.18 | 100.00 |
| 75 | VH945418 | 2 | 51 | 0.73 | 64.71 | 35.29 | 100.00 |
| 76 | VH945521 | 2 | 1,056 | 0.75 | 65.91 | 34.09 | 100.00 |
| 77 | VR552631 | 2 | 51 | 0.75 | 64.71 | 35.29 | 100.00 |
| 78 | VR552671 | 2 | 83 | 0.81 | 80.72 | 19.28 | 100.00 |
| 79 | VR552766 | 2 | 76 | 0.91 | 86.84 | 13.16 | 100.00 |
| 80 | VR552826 | 2 | 1,333 | 0.79 | 71.64 | 28.36 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH299061 | 1 | 1,427 | 0.51 | 94.88 | 5.12 | 100.00 |
| 2 | VH299298 | 2 | 1,722 | 0.84 | 92.45 | 7.55 | 100.00 |
| 3 | VH299352 | 2 | 111 | 0.91 | 89.19 | 10.81 | 100.00 |
| 4 | VH299378 | 2 | 101 | 0.91 | 90.10 | 9.90 | 100.00 |
| 5 | VH299379 | 3 | 82 | 0.97 | 92.68 | 7.32 | 100.00 |
| 6 | VH299380 | 1 | 96 | 0.83 | 91.67 | 8.33 | 100.00 |
| 7 | VH299381 | 2 | 99 | 0.94 | 94.95 | 5.05 | 100.00 |
| 8 | VH299420 | 2 | 1,848 | 0.93 | 90.58 | 9.42 | 100.00 |
| 9 | VH299470 | 2 | 1,555 | 0.88 | 91.32 | 8.68 | 100.00 |
| 10 | VH299560 | 2 | 109 | 0.84 | 86.24 | 13.76 | 100.00 |
| 11 | VH299561 | 2 | 54 | 1.00 | 100.00 | 0.00 | 100.00 |
| 12 | VH299632 | 2 | 97 | 0.87 | 89.69 | 10.31 | 100.00 |
| 13 | VH299646 | 2 | 1,992 | 0.95 | 93.42 | 6.58 | 100.00 |
| 14 | VH299647 | 2 | 1,940 | 0.89 | 92.16 | 7.84 | 100.00 |
| 15 | VH299781 | 2 | 106 | 0.86 | 89.62 | 10.38 | 100.00 |
| 16 | VH299783 | 2 | 2,089 | 0.95 | 93.20 | 6.80 | 100.00 |
| 17 | VH299784 | 2 | 2,030 | 0.91 | 93.50 | 6.50 | 100.00 |
| 18 | VH300001 | 1 | 1,439 | 0.50 | 94.58 | 5.42 | 100.00 |
| 19 | VH300064 | 2 | 1,722 | 0.86 | 92.68 | 7.32 | 100.00 |
| 20 | VH300360 | 2 | 109 | 0.94 | 94.50 | 5.50 | 100.00 |
| 21 | VH300362 | 3 | 83 | 0.97 | 91.57 | 8.43 | 100.00 |
| 22 | VH300364 | 1 | 98 | 0.76 | 88.78 | 11.22 | 100.00 |
| 23 | VH300365 | 2 | 108 | 0.93 | 94.44 | 5.56 | 100.00 |
| 24 | VH945769 | 2 | 104 | 0.97 | 95.19 | 4.81 | 100.00 |
| 25 | VH945771 | 3 | 1,947 | 0.94 | 91.17 | 8.83 | 100.00 |
| 26 | VH945777 | 3 | 1,787 | 0.93 | 90.43 | 9.57 | 100.00 |
| 27 | VH945866 | 2 | 1,535 | 0.81 | 91.60 | 8.40 | 100.00 |
| 28 | VH945870 | 2 | 65 | 0.92 | 95.38 | 4.62 | 100.00 |
| 29 | VH945872 | 2 | 1,548 | 0.89 | 92.76 | 7.24 | 100.00 |
| 30 | VR555292 | 2 | 1,489 | 0.77 | 85.63 | 14.37 | 100.00 |
| 31 | VR555293 | 2 | 1,908 | 0.91 | 89.36 | 10.64 | 100.00 |
| 32 | VR680265 | 1 | 104 | 0.71 | 95.19 | 4.81 | 100.00 |
| 33 | VR680266 | 2 | 1,838 | 0.80 | 96.14 | 3.86 | 100.00 |
| 34 | VR680295 | 1 | 1,241 | 0.70 | 87.27 | 12.73 | 100.00 |
| 35 | VR812636 | 1 | 1,280 | 0.80 | 94.14 | 5.86 | 100.00 |
| 36 | VR812637 | 1 | 1,334 | 0.92 | 95.88 | 4.12 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH299105 | 2 | 1,977 | 0.82 | 95.80 | 4.20 | 100.00 |
| 2 | VH299115 | 2 | 1,829 | 0.73 | 89.89 | 10.11 | 100.00 |
| 3 | VH299181 | 2 | 2,044 | 0.88 | 86.11 | 13.89 | 100.00 |
| 4 | VH299339 | 2 | 132 | 0.80 | 88.64 | 11.36 | 100.00 |
| 5 | VH299340 | 2 | 124 | 0.92 | 97.58 | 2.42 | 100.00 |
| 6 | VH299342 | 3 | 118 | 0.97 | 94.07 | 5.93 | 100.00 |
| 7 | VH299400 | 1 | 114 | 0.83 | 96.49 | 3.51 | 100.00 |
| 8 | VH299402 | 2 | 2,071 | 0.94 | 99.23 | 0.77 | 100.00 |
| 9 | VH299403 | 2 | 114 | 0.91 | 92.98 | 7.02 | 100.00 |
| 10 | VH299405 | 2 | 2,153 | 0.97 | 96.14 | 3.86 | 100.00 |
| 11 | VH299474 | 1 | 2,027 | 0.66 | 87.03 | 12.97 | 100.00 |
| 12 | VH299476 | 1 | 1,678 | 0.35 | 93.27 | 6.73 | 100.00 |
| 13 | VH299504 | 1 | 132 | 0.74 | 95.45 | 4.55 | 100.00 |
| 14 | VH299506 | 2 | 123 | 0.92 | 90.24 | 9.76 | 100.00 |
| 15 | VH299508 | 1 | 113 | 0.94 | 97.35 | 2.65 | 100.00 |
| 16 | VH299512 | 2 | 1,904 | 0.88 | 93.64 | 6.36 | 100.00 |
| 17 | VH299823 | 2 | 114 | 0.87 | 94.74 | 5.26 | 100.00 |
| 18 | VH299934 | 2 | 114 | 0.91 | 92.98 | 7.02 | 100.00 |
| 19 | VH300007 | 2 | 2,084 | 0.99 | 99.38 | 0.62 | 100.00 |
| 20 | VH300009 | 2 | 2,024 | 0.98 | 96.10 | 3.90 | 100.00 |
| 21 | VH300038 | 2 | 2,040 | 0.77 | 85.10 | 14.90 | 100.00 |
| 22 | VH300047 | 2 | 77 | 0.94 | 97.40 | 2.60 | 100.00 |
| 23 | VH300098 | 1 | 2,023 | 0.50 | 87.64 | 12.36 | 100.00 |
| 24 | VH300185 | 2 | 126 | 0.94 | 91.27 | 8.73 | 100.00 |
| 25 | VH300188 | 2 | 2,118 | 0.64 | 83.33 | 16.67 | 100.00 |
| 26 | VH300211 | 2 | 1,979 | 0.85 | 96.92 | 3.08 | 100.00 |
| 27 | VH300217 | 1 | 1,416 | 0.67 | 87.50 | 12.50 | 100.00 |
| 28 | VH300219 | 2 | 116 | 0.96 | 95.69 | 4.31 | 100.00 |
| 29 | VH945876 | 2 | 118 | 0.97 | 94.92 | 5.08 | 100.00 |
| 30 | VH945878 | 2 | 2,081 | 0.86 | 94.81 | 5.19 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH299043 | 2 | 244 | 0.89 | 91.39 | 8.61 | 100.00 |
| 2 | VH299044 | 2 | 1,571 | 0.84 | 92.23 | 7.77 | 100.00 |
| 3 | VH299045 | 2 | 1,617 | 0.94 | 95.86 | 4.14 | 100.00 |
| 4 | VH299046 | 2 | 1,612 | 0.97 | 95.91 | 4.09 | 100.00 |
| 5 | VH299081 | 3 | 1,416 | 0.92 | 84.11 | 15.89 | 100.00 |
| 6 | VH299082 | 2 | 1,419 | 0.70 | 84.00 | 16.00 | 100.00 |
| 7 | VH299143 | 2 | 107 | 0.91 | 94.39 | 5.61 | 100.00 |
| 8 | VH299151 | 2 | 1,567 | 0.86 | 93.81 | 6.19 | 100.00 |
| 9 | VH299164 | 2 | 1,493 | 0.90 | 96.58 | 3.42 | 100.00 |
| 10 | VH299169 | 2 | 1,608 | 0.97 | 94.59 | 5.41 | 100.00 |
| 11 | VH299410 | 1 | 1,018 | 0.36 | 94.01 | 5.99 | 100.00 |
| 12 | VH299411 | 2 | 1,437 | 0.63 | 88.10 | 11.90 | 100.00 |
| 13 | VH299412 | 3 | 1,415 | 0.88 | 86.08 | 13.92 | 100.00 |
| 14 | VH299433 | 1 | 104 | 0.74 | 98.08 | 1.92 | 100.00 |
| 15 | VH299434 | 2 | 104 | 0.82 | 80.77 | 19.23 | 100.00 |
| 16 | VH299438 | 2 | 125 | 0.95 | 97.60 | 2.40 | 100.00 |
| 17 | VH299595 | 2 | 100 | 0.86 | 94.00 | 6.00 | 100.00 |
| 18 | VH299597 | 2 | 1,565 | 0.82 | 90.99 | 9.01 | 100.00 |
| 19 | VH299601 | 3 | 1,577 | 0.93 | 85.67 | 14.33 | 100.00 |
| 20 | VH299680 | 1 | 101 | 0.78 | 96.04 | 3.96 | 100.00 |
| 21 | VH299683 | 2 | 96 | 0.83 | 83.33 | 16.67 | 100.00 |
| 22 | VH299685 | 2 | 88 | 0.87 | 94.32 | 5.68 | 100.00 |
| 23 | VH299687 | 3 | 1,505 | 0.85 | 95.02 | 4.98 | 100.00 |
| 24 | VH299695 | 2 | 951 | 0.90 | 92.64 | 7.36 | 100.00 |
| 25 | VH299696 | 2 | 1,387 | 0.83 | 92.07 | 7.93 | 100.00 |
| 26 | VH299697 | 2 | 1,343 | 0.85 | 94.94 | 5.06 | 100.00 |
| 27 | VH299699 | 2 | 1,434 | 0.97 | 95.05 | 4.95 | 100.00 |
| 28 | VH299855 | 2 | 111 | 0.79 | 96.40 | 3.60 | 100.00 |
| 29 | VH299857 | 2 | 115 | 0.90 | 88.70 | 11.30 | 100.00 |
| 30 | VH299860 | 1 | 90 | 0.90 | 97.78 | 2.22 | 100.00 |
| 31 | VH299861 | 2 | 1,632 | 0.97 | 95.83 | 4.17 | 100.00 |
| 32 | VH299884 | 2 | 130 | 0.92 | 91.54 | 8.46 | 100.00 |
| 33 | VH299887 | 2 | 1,504 | 0.81 | 89.83 | 10.17 | 100.00 |
| 34 | VH299891 | 3 | 1,496 | 0.90 | 86.56 | 13.44 | 100.00 |
| 35 | VH299985 | 2 | 55 | 0.85 | 81.82 | 18.18 | 100.00 |
| 36 | VH299987 | 2 | 1,426 | 0.67 | 89.69 | 10.31 | 100.00 |
| 37 | VH299989 | 3 | 1,421 | 0.88 | 86.49 | 13.51 | 100.00 |
| 38 | VH299995 | 2 | 1,482 | 0.91 | 91.97 | 8.03 | 100.00 |
| 39 | VH300075 | 2 | 57 | 0.80 | 89.47 | 10.53 | 100.00 |
| 40 | VH300077 | 3 | 81 | 0.93 | 88.89 | 11.11 | 100.00 |
| 41 | VH300078 | 2 | 1,390 | 0.66 | 85.54 | 14.46 | 100.00 |
| 42 | VH300306 | 2 | 1,405 | 0.91 | 93.31 | 6.69 | 100.00 |
| 43 | VH300307 | 2 | 1,448 | 0.83 | 90.47 | 9.53 | 100.00 |
| 44 | VH300308 | 2 | 1,449 | 0.90 | 93.44 | 6.56 | 100.00 |
| 45 | VH300309 | 2 | 1,443 | 0.97 | 95.15 | 4.85 | 100.00 |
| 46 | VH945787 | 2 | 100 | 0.88 | 87.00 | 13.00 | 100.00 |
| 47 | VH945788 | 2 | 92 | 0.87 | 92.39 | 7.61 | 100.00 |
| 48 | VH945808 | 1 | 157 | 0.74 | 94.27 | 5.73 | 100.00 |
| 49 | VH945809 | 2 | 502 | 0.88 | 98.41 | 1.59 | 100.00 |
| 50 | VH945827 | 2 | 999 | 0.82 | 87.99 | 12.01 | 100.00 |
| 51 | VH945852 | 2 | 1,185 | 0.83 | 88.10 | 11.90 | 100.00 |
| 52 | VH945853 | 2 | 104 | 0.91 | 83.65 | 16.35 | 100.00 |
| 53 | VH945854 | 2 | 1,333 | 0.85 | 90.92 | 9.08 | 100.00 |
| 54 | VR555296 | 2 | 103 | 0.91 | 86.41 | 13.59 | 100.00 |
| 55 | VR555303 | 1 | 1,495 | 0.85 | 93.58 | 6.42 | 100.00 |
| 56 | VR555304 | 2 | 1,468 | 0.89 | 83.72 | 16.28 | 100.00 |
| 57 | VR555312 | 1 | 91 | 0.73 | 86.81 | 13.19 | 100.00 |
| 58 | VR555315 | 2 | 84 | 0.82 | 88.10 | 11.90 | 100.00 |
| 59 | VR555318 | 2 | 92 | 0.85 | 85.87 | 14.13 | 100.00 |
| 60 | VR555319 | 2 | 1,395 | 0.80 | 89.96 | 10.04 | 100.00 |
| 61 | VR555320 | 1 | 1,151 | 0.97 | 98.61 | 1.39 | 100.00 |
| 62 | VR680256 | 2 | 99 | 0.87 | 91.92 | 8.08 | 100.00 |
| 63 | VR680258 | 3 | 981 | 0.96 | 92.76 | 7.24 | 100.00 |
| 64 | VR812649 | 2 | 1,011 | 0.93 | 90.01 | 9.99 | 100.00 |
| 65 | VR812650 | 2 | 1,051 | 0.90 | 84.87 | 15.13 | 100.00 |
| 66 | VR812654 | 1 | 857 | 0.85 | 92.88 | 7.12 | 100.00 |
| 67 | VR812655 | 2 | 1,281 | 0.84 | 83.92 | 16.08 | 100.00 |
| 68 | VR812658 | 2 | 1,283 | 0.86 | 82.70 | 17.30 | 100.00 |
| 69 | VR812659 | 2 | 1,438 | 0.86 | 84.56 | 15.44 | 100.00 |
| 70 | VR812662 | 1 | 779 | 0.87 | 93.58 | 6.42 | 100.00 |
| 71 | VR812664 | 2 | 1,305 | 0.83 | 81.15 | 18.85 | 100.00 |
| 72 | VR812665 | 2 | 1,361 | 0.81 | 84.79 | 15.21 | 100.00 |
| 73 | VR812666 | 2 | 1,273 | 0.85 | 82.25 | 17.75 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH299454 | 2 | 2,236 | 0.62 | 80.59 | 19.41 | 100.00 |
| 2 | VH299455 | 1 | 2,295 | 0.48 | 96.99 | 3.01 | 100.00 |
| 3 | VH299456 | 2 | 2,469 | 0.79 | 82.58 | 17.42 | 100.00 |
| 4 | VH299486 | 2 | 2,443 | 0.80 | 86.90 | 13.10 | 100.00 |
| 5 | VH299520 | 2 | 2,235 | 0.65 | 82.86 | 17.14 | 100.00 |
| 6 | VH299521 | 1 | 2,202 | 0.79 | 98.68 | 1.32 | 100.00 |
| 7 | VH299522 | 2 | 2,471 | 0.89 | 92.80 | 7.20 | 100.00 |
| 8 | VH299585 | 1 | 1,705 | 0.68 | 98.48 | 1.52 | 100.00 |
| 9 | VH299586 | 2 | 2,142 | 0.79 | 85.67 | 14.33 | 100.00 |
| 10 | VH299651 | 2 | 67 | 0.95 | 97.01 | 2.99 | 100.00 |
| 11 | VH299652 | 2 | 2,317 | 0.68 | 85.67 | 14.33 | 100.00 |
| 12 | VH299655 | 2 | 2,585 | 0.88 | 89.21 | 10.79 | 100.00 |
| 13 | VH299792 | 2 | 2,287 | 0.79 | 92.52 | 7.48 | 100.00 |
| 14 | VH300109 | 2 | 113 | 0.92 | 98.23 | 1.77 | 100.00 |
| 15 | VH300114 | 2 | 2,400 | 0.69 | 83.12 | 16.88 | 100.00 |
| 16 | VH300125 | 1 | 2,718 | 0.94 | 98.31 | 1.69 | 100.00 |
| 17 | VH300126 | 2 | 2,418 | 0.78 | 95.53 | 4.47 | 100.00 |
| 18 | VH300153 | 2 | 113 | 0.93 | 97.35 | 2.65 | 100.00 |
| 19 | VH300155 | 2 | 2,383 | 0.63 | 83.05 | 16.95 | 100.00 |
| 20 | VH300163 | 2 | 2,386 | 0.80 | 92.37 | 7.63 | 100.00 |
| 21 | VH300196 | 2 | 2,366 | 0.79 | 81.99 | 18.01 | 100.00 |
| 22 | VH300197 | 1 | 2,192 | 0.43 | 97.63 | 2.37 | 100.00 |
| 23 | VH300202 | 1 | 628 | 0.67 | 99.68 | 0.32 | 100.00 |
| 24 | VH300206 | 2 | 2,294 | 0.80 | 92.41 | 7.59 | 100.00 |
| 25 | VH945791 | 2 | 2,462 | 0.78 | 93.26 | 6.74 | 100.00 |
| 26 | VH945795 | 2 | 2,332 | 0.69 | 82.55 | 17.45 | 100.00 |
| 27 | VH945796 | 2 | 2,343 | 0.61 | 89.33 | 10.67 | 100.00 |
| 28 | VH945801 | 2 | 2,227 | 0.66 | 85.77 | 14.23 | 100.00 |
| 29 | VH945802 | 2 | 2,555 | 0.72 | 90.80 | 9.20 | 100.00 |
| 30 | VH945803 | 2 | 2,514 | 0.77 | 93.08 | 6.92 | 100.00 |
| 31 | VH953696 | 2 | 2,193 | 0.60 | 88.74 | 11.26 | 100.00 |
| 32 | VH953698 | 2 | 2,274 | 0.79 | 93.45 | 6.55 | 100.00 |
| 33 | VH953704 | 2 | 2,386 | 0.93 | 98.83 | 1.17 | 100.00 |
| 34 | VH953705 | 2 | 117 | 0.93 | 91.45 | 8.55 | 100.00 |
| 35 | VH953706 | 2 | 2,345 | 0.82 | 93.86 | 6.14 | 100.00 |
| 36 | VR680813 | 2 | 2,528 | 0.73 | 91.73 | 8.27 | 100.00 |
| 37 | VR680814 | 2 | 2,288 | 0.80 | 92.05 | 7.95 | 100.00 |
| 38 | VR680816 | 1 | 124 | 0.78 | 91.94 | 8.06 | 100.00 |
| 39 | VR680821 | 2 | 106 | 0.89 | 85.85 | 14.15 | 100.00 |
| 40 | VR680822 | 2 | 2,499 | 0.90 | 91.92 | 8.08 | 100.00 |
| 41 | VR680823 | 2 | 2,577 | 0.99 | 99.03 | 0.97 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH299055 | 2 | 3,179 | 0.94 | 94.65 | 5.35 | 100.00 |
| 2 | VH299074 | 1 | 2,128 | 0.58 | 99.06 | 0.94 | 100.00 |
| 3 | VH299212 | 1 | 121 | 0.00 | 99.17 | 0.83 | 100.00 |
| 4 | VH299227 | 2 | 3,296 | 0.58 | 89.47 | 10.53 | 100.00 |
| 5 | VH299869 | 2 | 3,369 | 0.87 | 87.38 | 12.62 | 100.00 |
| 6 | VH299871 | 1 | 3,299 | 0.80 | 98.94 | 1.06 | 100.00 |
| 7 | VH299872 | 2 | 3,280 | 0.80 | 95.00 | 5.00 | 100.00 |
| 8 | VH299927 | 2 | 3,261 | 0.71 | 89.82 | 10.18 | 100.00 |
| 9 | VH299950 | 2 | 3,016 | 0.81 | 89.06 | 10.94 | 100.00 |
| 10 | VH299952 | 1 | 3,292 | 0.73 | 98.66 | 1.34 | 100.00 |
| 11 | VH299953 | 2 | 3,269 | 0.81 | 94.71 | 5.29 | 100.00 |
| 12 | VH300022 | 1 | 1,978 | 0.46 | 98.84 | 1.16 | 100.00 |
| 13 | VH300071 | 2 | 2,690 | 0.90 | 93.38 | 6.62 | 100.00 |
| 14 | VH300259 | 2 | 115 | 0.99 | 99.13 | 0.87 | 100.00 |
| 15 | VH300449 | 2 | 3,032 | 0.94 | 94.49 | 5.51 | 100.00 |
| 16 | VR555309 | 1 | 1,944 | 0.89 | 96.14 | 3.86 | 100.00 |
| 17 | VR680290 | 3 | 3,394 | 0.94 | 93.61 | 6.39 | 100.00 |
| 18 | VR680292 | 2 | 679 | 0.85 | 94.85 | 5.15 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH299087 | 2 | 99 | 0.79 | 90.91 | 9.09 | 100.00 |
| 2 | VH299088 | 1 | 3,407 | 0.54 | 86.26 | 13.74 | 100.00 |
| 3 | VH299669 | 2 | 98 | 0.90 | 96.94 | 3.06 | 100.00 |
| 4 | VH299670 | 1 | 3,336 | 0.60 | 86.66 | 13.34 | 100.00 |
| 5 | VH299739 | 2 | 102 | 0.82 | 92.16 | 7.84 | 100.00 |
| 6 | VH299741 | 2 | 3,353 | 0.90 | 97.14 | 2.86 | 100.00 |
| 7 | VH299742 | 1 | 3,259 | 0.65 | 88.37 | 11.63 | 100.00 |
| 8 | VH299806 | 2 | 101 | 0.87 | 96.04 | 3.96 | 100.00 |
| 9 | VH299807 | 1 | 3,012 | 0.86 | 98.94 | 1.06 | 100.00 |
| 10 | VH299811 | 2 | 3,524 | 0.73 | 91.03 | 8.97 | 100.00 |
| 11 | VH299901 | 2 | 3,528 | 0.87 | 95.38 | 4.62 | 100.00 |
| 12 | VH299902 | 1 | 2,706 | 0.54 | 90.84 | 9.16 | 100.00 |
| 13 | VH300055 | 2 | 3,180 | 0.89 | 96.95 | 3.05 | 100.00 |
| 14 | VH300056 | 1 | 2,753 | 0.53 | 87.83 | 12.17 | 100.00 |
| 15 | VH300337 | 2 | 104 | 0.78 | 94.23 | 5.77 | 100.00 |
| 16 | VH300340 | 1 | 3,684 | 0.64 | 86.83 | 13.17 | 100.00 |
| 17 | VH300345 | 2 | 3,737 | 0.85 | 93.90 | 6.10 | 100.00 |
| 18 | VH945762 | 1 | 3,264 | 0.34 | 94.82 | 5.18 | 100.00 |
| 19 | VH945765 | 2 | 3,408 | 0.62 | 93.84 | 6.16 | 100.00 |
| 20 | VR680271 | 2 | 103 | 0.91 | 88.35 | 11.65 | 100.00 |
| 21 | VR680272 | 1 | 105 | 0.84 | 95.24 | 4.76 | 100.00 |
| 22 | VR680273 | 2 | 3,623 | 0.87 | 87.44 | 12.56 | 100.00 |
| 23 | VR680301 | 3 | 3,028 | 0.92 | 84.94 | 15.06 | 100.00 |
| 24 | VR680302 | 3 | 3,473 | 0.95 | 83.56 | 16.44 | 100.00 |
| 25 | VR680303 | 2 | 121 | 0.91 | 88.43 | 11.57 | 100.00 |
| 26 | VR680304 | 2 | 100 | 0.94 | 91.00 | 9.00 | 100.00 |
| 27 | VR812702 | 2 | 2,773 | 0.95 | 94.01 | 5.99 | 100.00 |
| 28 | VR812704 | 2 | 3,664 | 0.90 | 94.71 | 5.29 | 100.00 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH299384 | 1 | 75 | 0.84 | 97.33 | 2.67 | 100.00 |
| 2 | VH299385 | 1 | 2,602 | 0.71 | 95.16 | 4.84 | 100.00 |
| 3 | VH299386 | 2 | 1,607 | 0.90 | 98.82 | 1.18 | 100.00 |
| 4 | VH299387 | 3 | 3,016 | 0.84 | 89.42 | 10.58 | 100.00 |
| 5 | VH299659 | 1 | 1,875 | 0.77 | 97.17 | 2.83 | 100.00 |
| 6 | VH299660 | 2 | 1,581 | 0.81 | 99.56 | 0.44 | 100.00 |
| 7 | VH299661 | 2 | 2,901 | 0.87 | 97.93 | 2.07 | 100.00 |
| 8 | VH299662 | 3 | 2,788 | 0.81 | 88.88 | 11.12 | 100.00 |
| 9 | VH299838 | 2 | 2,901 | 0.80 | 95.42 | 4.58 | 100.00 |
| 10 | VH299956 | 1 | 68 | 0.78 | 97.06 | 2.94 | 100.00 |
| 11 | VH299958 | 2 | 1,551 | 0.90 | 99.68 | 0.32 | 100.00 |
| 12 | VH299961 | 2 | 2,917 | 0.90 | 97.87 | 2.13 | 100.00 |
| 13 | VH299965 | 3 | 2,899 | 0.85 | 93.76 | 6.24 | 100.00 |
| 14 | VH300132 | 2 | 2,925 | 0.83 | 97.09 | 2.91 | 100.00 |
| 15 | VH300133 | 3 | 2,787 | 0.80 | 89.31 | 10.69 | 100.00 |
| 16 | VH300174 | 1 | 72 | 0.75 | 94.44 | 5.56 | 100.00 |
| 17 | VH300176 | 1 | 2,592 | 0.55 | 93.94 | 6.06 | 100.00 |
| 18 | VH300177 | 2 | 1,493 | 0.93 | 99.00 | 1.00 | 100.00 |
| 19 | VH300178 | 3 | 3,128 | 0.90 | 90.06 | 9.94 | 100.00 |
| 20 | VH300222 | 2 | 81 | 0.95 | 93.83 | 6.17 | 100.00 |
| 21 | VH300224 | 2 | 81 | 0.85 | 88.89 | 11.11 | 100.00 |
| 22 | VH300226 | 2 | 75 | 0.62 | 85.33 | 14.67 | 100.00 |
| 23 | VH945812 | 1 | 76 | 0.81 | 94.74 | 5.26 | 100.00 |
| 24 | VH945814 | 2 | 3,207 | 0.93 | 97.38 | 2.62 | 100.00 |
| 25 | VH945815 | 3 | 2,913 | 0.84 | 82.01 | 17.99 | 100.00 |
| 26 | VH945894 | 1 | 73 | 0.79 | 94.52 | 5.48 | 100.00 |
| 27 | VH945897 | 2 | 72 | 0.89 | 88.89 | 11.11 | 100.00 |
| 28 | VH945898 | 2 | 74 | 0.93 | 94.59 | 5.41 | 100.00 |
| 29 | VR555285 | 2 | 80 | 0.90 | 90.00 | 10.00 | 100.00 |
| 30 | VR555286 | 1 | 2,609 | 0.45 | 91.45 | 8.55 | 100.00 |
| 31 | VR555287 | 2 | 2,705 | 0.84 | 91.72 | 8.28 | 100.00 |
| 32 | VR680317 | 2 | 3,032 | 0.86 | 86.38 | 13.62 | 100.00 |
| 33 | VR680318 | 2 | 2,819 | 0.55 | 85.46 | 14.54 | 100.00 |
| 34 | VR680320 | 1 | 1,226 | 0.54 | 99.18 | 0.82 | 100.00 |

**Notes and Legend:**

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

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

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295222 | 6 | POR | 1,103 | 0.69 | 72.35 | 27.65 | 100.00 |
| 2 | VH295344 | 6 | POR | 663 | 0.70 | 73.15 | 26.85 | 100.00 |
| 3 | VH295418 | 6 | POR | 1,247 | 0.72 | 74.02 | 25.98 | 100.00 |
| 4 | VH295561 | 6 | POR | 547 | 0.79 | 66.54 | 33.46 | 100.00 |
| 5 | VH295659 | 6 | POR | 168 | 0.72 | 73.81 | 26.19 | 100.00 |
| 6 | VH295670 | 6 | POR | 513 | 0.65 | 68.81 | 31.19 | 100.00 |
| 7 | VH295684 | 6 | POR | 113 | 0.74 | 60.18 | 39.82 | 100.00 |
| 8 | VH295713 | 6 | POR | 77 | 0.78 | 84.42 | 15.58 | 100.00 |
| 9 | VH295880 | 6 | POR | 454 | 0.76 | 65.42 | 34.58 | 100.00 |
| 10 | VH295912 | 6 | POR | 218 | 0.71 | 78.44 | 21.56 | 100.00 |
| 11 | VH295950 | 6 | POR | 98 | 0.80 | 72.45 | 27.55 | 100.00 |
| 12 | VH295997 | 6 | POR | 1,249 | 0.67 | 74.22 | 25.78 | 100.00 |
| 13 | VH296068 | 6 | POR | 306 | 0.73 | 65.69 | 34.31 | 100.00 |
| 14 | VH945444 | 6 | POR | 1,389 | 0.75 | 66.38 | 33.62 | 100.00 |
| 15 | VH945454 | 6 | POR | 76 | 0.75 | 82.89 | 17.11 | 100.00 |
| 16 | VH945558 | 6 | POR | 175 | 0.68 | 73.14 | 26.86 | 100.00 |
| 17 | VH945568 | 6 | POR | 393 | 0.80 | 68.70 | 31.30 | 100.00 |
| 18 | VH945579 | 6 | POR | 227 | 0.72 | 76.65 | 23.35 | 100.00 |
| 19 | VR552692 | 6 | POR | 1,344 | 0.71 | 73.96 | 26.04 | 100.00 |
| 20 | VR552702 | 6 | POR | 573 | 0.67 | 69.28 | 30.72 | 100.00 |
| 21 | VR552747 | 6 | POR | 626 | 0.75 | 73.16 | 26.84 | 100.00 |
| 22 | VR552782 | 6 | POR | 671 | 0.78 | 66.62 | 33.38 | 100.00 |
| 23 | VR552872 | 6 | POR | 489 | 0.75 | 64.62 | 35.38 | 100.00 |
| 24 | VR552882 | 6 | POR | 1,571 | 0.67 | 71.42 | 28.58 | 100.00 |
| 25 | VR552897 | 6 | POR | 601 | 0.67 | 70.72 | 29.28 | 100.00 |
| 26 | VH295222 | 6 | EEL | 1,103 | 0.69 | 72.44 | 27.56 | 100.00 |
| 27 | VH295344 | 6 | EEL | 663 | 0.70 | 73.30 | 26.70 | 100.00 |
| 28 | VH295418 | 6 | EEL | 1,247 | 0.72 | 73.86 | 26.14 | 100.00 |
| 29 | VH295561 | 6 | DEV | 547 | 0.79 | 66.18 | 33.82 | 100.00 |
| 30 | VH295659 | 6 | EEL | 168 | 0.74 | 75.00 | 25.00 | 100.00 |
| 31 | VH295670 | 6 | EEL | 513 | 0.65 | 68.62 | 31.38 | 100.00 |
| 32 | VH295684 | 6 | DEV | 113 | 0.76 | 62.83 | 37.17 | 100.00 |
| 33 | VH295713 | 6 | EEL | 77 | 0.78 | 84.42 | 15.58 | 100.00 |
| 34 | VH295880 | 6 | DEV | 454 | 0.76 | 64.98 | 35.02 | 100.00 |
| 35 | VH295912 | 6 | EEL | 218 | 0.71 | 78.44 | 21.56 | 100.00 |
| 36 | VH295950 | 6 | DEV | 98 | 0.79 | 71.43 | 28.57 | 100.00 |
| 37 | VH295997 | 6 | EEL | 1,249 | 0.66 | 73.34 | 26.66 | 100.00 |
| 38 | VH296068 | 6 | DEV | 306 | 0.73 | 66.34 | 33.66 | 100.00 |
| 39 | VH945444 | 6 | DEV | 1,389 | 0.74 | 65.73 | 34.27 | 100.00 |
| 40 | VH945454 | 6 | EEL | 76 | 0.75 | 82.89 | 17.11 | 100.00 |
| 41 | VH945558 | 6 | EEL | 175 | 0.71 | 74.86 | 25.14 | 100.00 |
| 42 | VH945568 | 6 | DEV | 393 | 0.81 | 69.21 | 30.79 | 100.00 |
| 43 | VH945579 | 6 | EEL | 227 | 0.71 | 76.21 | 23.79 | 100.00 |
| 44 | VR552692 | 6 | EEL | 1,344 | 0.71 | 73.81 | 26.19 | 100.00 |
| 45 | VR552702 | 6 | EEL | 573 | 0.67 | 68.94 | 31.06 | 100.00 |
| 46 | VR552747 | 6 | EEL | 626 | 0.75 | 73.32 | 26.68 | 100.00 |
| 47 | VR552782 | 6 | DEV | 671 | 0.77 | 66.02 | 33.98 | 100.00 |
| 48 | VR552872 | 6 | DEV | 489 | 0.76 | 65.24 | 34.76 | 100.00 |
| 49 | VR552882 | 6 | EEL | 1,571 | 0.68 | 72.12 | 27.88 | 100.00 |
| 50 | VR552897 | 6 | EEL | 601 | 0.68 | 70.88 | 29.12 | 100.00 |
| 51 | VH295222 | 6 | COV | 1,103 | 0.66 | 71.35 | 28.65 | 100.00 |
| 52 | VH295344 | 6 | COV | 663 | 0.63 | 70.59 | 29.41 | 100.00 |
| 53 | VH295418 | 6 | COV | 1,247 | 0.70 | 72.65 | 27.35 | 100.00 |
| 54 | VH295561 | 6 | COV | 547 | 0.70 | 70.38 | 29.62 | 100.00 |
| 55 | VH295659 | 6 | COV | 168 | 0.69 | 69.64 | 30.36 | 100.00 |
| 56 | VH295670 | 6 | COV | 513 | 0.63 | 71.54 | 28.46 | 100.00 |
| 57 | VH295684 | 6 | COV | 113 | 0.57 | 57.52 | 42.48 | 100.00 |
| 58 | VH295713 | 6 | COV | 77 | 0.76 | 77.92 | 22.08 | 100.00 |
| 59 | VH295880 | 6 | COV | 454 | 0.69 | 68.06 | 31.94 | 100.00 |
| 60 | VH295912 | 6 | COV | 218 | 0.64 | 65.60 | 34.40 | 100.00 |
| 61 | VH295950 | 6 | COV | 98 | 0.68 | 71.43 | 28.57 | 100.00 |
| 62 | VH295997 | 6 | COV | 1,249 | 0.64 | 72.06 | 27.94 | 100.00 |
| 63 | VH296068 | 6 | COV | 306 | 0.66 | 68.95 | 31.05 | 100.00 |
| 64 | VH945444 | 6 | COV | 1,389 | 0.64 | 67.03 | 32.97 | 100.00 |
| 65 | VH945454 | 6 | COV | 76 | 0.79 | 80.26 | 19.74 | 100.00 |
| 66 | VH945558 | 6 | COV | 175 | 0.74 | 74.29 | 25.71 | 100.00 |
| 67 | VH945568 | 6 | COV | 393 | 0.74 | 72.77 | 27.23 | 100.00 |
| 68 | VH945579 | 6 | COV | 227 | 0.70 | 70.93 | 29.07 | 100.00 |
| 69 | VR552692 | 6 | COV | 1,344 | 0.66 | 73.29 | 26.71 | 100.00 |
| 70 | VR552702 | 6 | COV | 573 | 0.65 | 68.76 | 31.24 | 100.00 |
| 71 | VR552747 | 6 | COV | 626 | 0.65 | 71.25 | 28.75 | 100.00 |
| 72 | VR552782 | 6 | COV | 671 | 0.70 | 69.00 | 31.00 | 100.00 |
| 73 | VR552872 | 6 | COV | 489 | 0.69 | 68.30 | 31.70 | 100.00 |
| 74 | VR552882 | 6 | COV | 1,571 | 0.63 | 69.64 | 30.36 | 100.00 |
| 75 | VR552897 | 6 | COV | 601 | 0.68 | 69.88 | 30.12 | 100.00 |

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295258 | 6 | POR | 418 | 0.78 | 68.18 | 31.82 | 100.00 |
| 2 | VH295351 | 6 | POR | 102 | 0.81 | 69.61 | 30.39 | 100.00 |
| 3 | VH295426 | 6 | POR | 209 | 0.73 | 72.73 | 27.27 | 100.00 |
| 4 | VH295493 | 6 | POR | 466 | 0.64 | 66.74 | 33.26 | 100.00 |
| 5 | VH295522 | 6 | POR | 514 | 0.74 | 68.48 | 31.52 | 100.00 |
| 6 | VH295644 | 6 | POR | 103 | 0.80 | 65.05 | 34.95 | 100.00 |
| 7 | VH295707 | 6 | POR | 137 | 0.74 | 77.37 | 22.63 | 100.00 |
| 8 | VH295731 | 6 | POR | 508 | 0.72 | 66.14 | 33.86 | 100.00 |
| 9 | VH295775 | 6 | POR | 203 | 0.81 | 73.89 | 26.11 | 100.00 |
| 10 | VH295781 | 6 | POR | 194 | 0.76 | 69.59 | 30.41 | 100.00 |
| 11 | VH295787 | 6 | POR | 83 | 0.68 | 68.67 | 31.33 | 100.00 |
| 12 | VH295858 | 6 | POR | 1,143 | 0.78 | 65.35 | 34.65 | 100.00 |
| 13 | VH295865 | 6 | POR | 136 | 0.80 | 74.26 | 25.74 | 100.00 |
| 14 | VH295892 | 6 | POR | 627 | 0.70 | 68.74 | 31.26 | 100.00 |
| 15 | VH295956 | 6 | POR | 272 | 0.73 | 72.79 | 27.21 | 100.00 |
| 16 | VH945429 | 6 | POR | 862 | 0.80 | 66.01 | 33.99 | 100.00 |
| 17 | VH945439 | 6 | POR | 754 | 0.71 | 71.75 | 28.25 | 100.00 |
| 18 | VH945563 | 6 | POR | 762 | 0.70 | 71.00 | 29.00 | 100.00 |
| 19 | VH945588 | 6 | POR | 176 | 0.77 | 61.93 | 38.07 | 100.00 |
| 20 | VR552627 | 6 | POR | 133 | 0.68 | 70.68 | 29.32 | 100.00 |
| 21 | VR552637 | 6 | POR | 174 | 0.82 | 75.29 | 24.71 | 100.00 |
| 22 | VR552712 | 6 | POR | 515 | 0.73 | 73.01 | 26.99 | 100.00 |
| 23 | VR552722 | 6 | POR | 624 | 0.81 | 66.67 | 33.33 | 100.00 |
| 24 | VR552742 | 6 | POR | 355 | 0.75 | 62.25 | 37.75 | 100.00 |
| 25 | VR552792 | 6 | POR | 424 | 0.75 | 64.86 | 35.14 | 100.00 |
| 26 | VR552797 | 6 | POR | 333 | 0.69 | 69.07 | 30.93 | 100.00 |
| 27 | VR552832 | 6 | POR | 235 | 0.74 | 71.06 | 28.94 | 100.00 |
| 28 | VH295258 | 6 | DEV | 418 | 0.78 | 67.46 | 32.54 | 100.00 |
| 29 | VH295351 | 6 | DEV | 102 | 0.81 | 69.61 | 30.39 | 100.00 |
| 30 | VH295426 | 6 | EEL | 209 | 0.73 | 72.73 | 27.27 | 100.00 |
| 31 | VH295493 | 6 | EEL | 466 | 0.66 | 68.24 | 31.76 | 100.00 |
| 32 | VH295522 | 6 | EEL | 514 | 0.74 | 69.07 | 30.93 | 100.00 |
| 33 | VH295644 | 6 | DEV | 103 | 0.79 | 63.11 | 36.89 | 100.00 |
| 34 | VH295707 | 6 | EEL | 137 | 0.73 | 76.64 | 23.36 | 100.00 |
| 35 | VH295731 | 6 | EEL | 508 | 0.72 | 65.94 | 34.06 | 100.00 |
| 36 | VH295775 | 6 | DEV | 203 | 0.81 | 73.89 | 26.11 | 100.00 |
| 37 | VH295781 | 6 | DEV | 194 | 0.78 | 70.62 | 29.38 | 100.00 |
| 38 | VH295787 | 6 | EEL | 83 | 0.70 | 71.08 | 28.92 | 100.00 |
| 39 | VH295858 | 6 | DEV | 1,143 | 0.78 | 65.18 | 34.82 | 100.00 |
| 40 | VH295865 | 6 | DEV | 136 | 0.80 | 74.26 | 25.74 | 100.00 |
| 41 | VH295892 | 6 | EEL | 627 | 0.69 | 68.42 | 31.58 | 100.00 |
| 42 | VH295956 | 6 | EEL | 272 | 0.73 | 72.43 | 27.57 | 100.00 |
| 43 | VH945429 | 6 | DEV | 862 | 0.80 | 65.43 | 34.57 | 100.00 |
| 44 | VH945439 | 6 | EEL | 754 | 0.72 | 72.28 | 27.72 | 100.00 |
| 45 | VH945563 | 6 | EEL | 762 | 0.70 | 71.39 | 28.61 | 100.00 |
| 46 | VH945588 | 6 | DEV | 176 | 0.77 | 61.36 | 38.64 | 100.00 |
| 47 | VR552627 | 6 | EEL | 133 | 0.69 | 72.18 | 27.82 | 100.00 |
| 48 | VR552637 | 6 | DEV | 174 | 0.82 | 74.14 | 25.86 | 100.00 |
| 49 | VR552712 | 6 | EEL | 515 | 0.74 | 73.59 | 26.41 | 100.00 |
| 50 | VR552722 | 6 | DEV | 624 | 0.81 | 66.83 | 33.17 | 100.00 |
| 51 | VR552742 | 6 | DEV | 355 | 0.75 | 61.69 | 38.31 | 100.00 |
| 52 | VR552792 | 6 | DEV | 424 | 0.75 | 64.86 | 35.14 | 100.00 |
| 53 | VR552797 | 6 | EEL | 333 | 0.69 | 68.47 | 31.53 | 100.00 |
| 54 | VR552832 | 6 | EEL | 235 | 0.75 | 72.77 | 27.23 | 100.00 |
| 55 | VH295258 | 6 | COV | 418 | 0.67 | 63.88 | 36.12 | 100.00 |
| 56 | VH295351 | 6 | COV | 102 | 0.58 | 57.84 | 42.16 | 100.00 |
| 57 | VH295426 | 6 | COV | 209 | 0.74 | 63.16 | 36.84 | 100.00 |
| 58 | VH295493 | 6 | COV | 466 | 0.74 | 65.45 | 34.55 | 100.00 |
| 59 | VH295522 | 6 | COV | 514 | 0.72 | 65.56 | 34.44 | 100.00 |
| 60 | VH295644 | 6 | COV | 103 | 0.78 | 73.79 | 26.21 | 100.00 |
| 61 | VH295707 | 6 | COV | 137 | 0.79 | 71.53 | 28.47 | 100.00 |
| 62 | VH295731 | 6 | COV | 508 | 0.70 | 65.75 | 34.25 | 100.00 |
| 63 | VH295775 | 6 | COV | 203 | 0.74 | 70.94 | 29.06 | 100.00 |
| 64 | VH295781 | 6 | COV | 194 | 0.68 | 63.40 | 36.60 | 100.00 |
| 65 | VH295787 | 6 | COV | 83 | 0.74 | 68.67 | 31.33 | 100.00 |
| 66 | VH295858 | 6 | COV | 1,143 | 0.64 | 65.09 | 34.91 | 100.00 |
| 67 | VH295865 | 6 | COV | 136 | 0.75 | 69.12 | 30.88 | 100.00 |
| 68 | VH295892 | 6 | COV | 627 | 0.72 | 66.19 | 33.81 | 100.00 |
| 69 | VH295956 | 6 | COV | 272 | 0.73 | 66.18 | 33.82 | 100.00 |
| 70 | VH945429 | 6 | COV | 862 | 0.70 | 68.10 | 31.90 | 100.00 |
| 71 | VH945439 | 6 | COV | 754 | 0.78 | 71.09 | 28.91 | 100.00 |
| 72 | VH945563 | 6 | COV | 762 | 0.78 | 69.16 | 30.84 | 100.00 |
| 73 | VH945588 | 6 | COV | 176 | 0.64 | 61.36 | 38.64 | 100.00 |
| 74 | VR552627 | 6 | COV | 133 | 0.75 | 66.92 | 33.08 | 100.00 |
| 75 | VR552637 | 6 | COV | 174 | 0.63 | 63.22 | 36.78 | 100.00 |
| 76 | VR552712 | 6 | COV | 515 | 0.72 | 63.69 | 36.31 | 100.00 |
| 77 | VR552722 | 6 | COV | 624 | 0.68 | 65.38 | 34.62 | 100.00 |
| 78 | VR552742 | 6 | COV | 355 | 0.67 | 64.51 | 35.49 | 100.00 |
| 79 | VR552792 | 6 | COV | 424 | 0.73 | 70.28 | 29.72 | 100.00 |
| 80 | VR552797 | 6 | COV | 333 | 0.75 | 67.27 | 32.73 | 100.00 |
| 81 | VR552832 | 6 | COV | 235 | 0.73 | 64.26 | 35.74 | 100.00 |

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295215 | 6 | POR | 1,642 | 0.76 | 62.48 | 37.52 | 100.00 |
| 2 | VH295230 | 6 | POR | 121 | 0.83 | 72.73 | 27.27 | 100.00 |
| 3 | VH295406 | 6 | POR | 140 | 0.85 | 81.43 | 18.57 | 100.00 |
| 4 | VH295431 | 6 | POR | 760 | 0.77 | 70.26 | 29.74 | 100.00 |
| 5 | VH295452 | 6 | POR | 100 | 0.86 | 78.00 | 22.00 | 100.00 |
| 6 | VH295543 | 6 | POR | 1,389 | 0.74 | 70.41 | 29.59 | 100.00 |
| 7 | VH295793 | 6 | POR | 772 | 0.77 | 67.23 | 32.77 | 100.00 |
| 8 | VH295810 | 6 | POR | 1,595 | 0.76 | 63.07 | 36.93 | 100.00 |
| 9 | VH295835 | 6 | POR | 388 | 0.76 | 62.63 | 37.37 | 100.00 |
| 10 | VH295900 | 6 | POR | 1,545 | 0.74 | 61.42 | 38.58 | 100.00 |
| 11 | VH295920 | 6 | POR | 327 | 0.79 | 70.34 | 29.66 | 100.00 |
| 12 | VH295971 | 6 | POR | 624 | 0.79 | 68.75 | 31.25 | 100.00 |
| 13 | VH296047 | 6 | POR | 1,510 | 0.76 | 63.31 | 36.69 | 100.00 |
| 14 | VH296072 | 6 | POR | 127 | 0.86 | 76.38 | 23.62 | 100.00 |
| 15 | VH296081 | 6 | POR | 671 | 0.74 | 67.96 | 32.04 | 100.00 |
| 16 | VH296090 | 6 | POR | 752 | 0.78 | 67.42 | 32.58 | 100.00 |
| 17 | VH945409 | 6 | POR | 317 | 0.80 | 66.88 | 33.12 | 100.00 |
| 18 | VH945449 | 6 | POR | 1,382 | 0.74 | 70.62 | 29.38 | 100.00 |
| 19 | VH945517 | 6 | POR | 65 | 0.74 | 67.69 | 32.31 | 100.00 |
| 20 | VH945601 | 6 | POR | 523 | 0.77 | 64.24 | 35.76 | 100.00 |
| 21 | VR552652 | 6 | POR | 1,589 | 0.76 | 63.94 | 36.06 | 100.00 |
| 22 | VR552697 | 6 | POR | 541 | 0.71 | 67.28 | 32.72 | 100.00 |
| 23 | VR552707 | 6 | POR | 341 | 0.76 | 60.12 | 39.88 | 100.00 |
| 24 | VR552727 | 6 | POR | 638 | 0.74 | 71.32 | 28.68 | 100.00 |
| 25 | VR552822 | 6 | POR | 715 | 0.80 | 71.19 | 28.81 | 100.00 |
| 26 | VR552862 | 6 | POR | 719 | 0.76 | 64.12 | 35.88 | 100.00 |
| 27 | VR552867 | 6 | POR | 1,455 | 0.74 | 65.15 | 34.85 | 100.00 |
| 28 | VH295215 | 6 | DEV | 1,642 | 0.76 | 62.06 | 37.94 | 100.00 |
| 29 | VH295230 | 6 | EEL | 121 | 0.83 | 74.38 | 25.62 | 100.00 |
| 30 | VH295406 | 6 | EEL | 140 | 0.86 | 82.14 | 17.86 | 100.00 |
| 31 | VH295431 | 6 | EEL | 760 | 0.77 | 70.39 | 29.61 | 100.00 |
| 32 | VH295452 | 6 | EEL | 100 | 0.84 | 76.00 | 24.00 | 100.00 |
| 33 | VH295543 | 6 | EEL | 1,389 | 0.75 | 71.06 | 28.94 | 100.00 |
| 34 | VH295793 | 6 | EEL | 772 | 0.76 | 66.45 | 33.55 | 100.00 |
| 35 | VH295810 | 6 | DEV | 1,595 | 0.76 | 62.51 | 37.49 | 100.00 |
| 36 | VH295835 | 6 | DEV | 388 | 0.76 | 63.14 | 36.86 | 100.00 |
| 37 | VH295900 | 6 | DEV | 1,545 | 0.75 | 61.88 | 38.12 | 100.00 |
| 38 | VH295920 | 6 | DEV | 327 | 0.79 | 70.34 | 29.66 | 100.00 |
| 39 | VH295971 | 6 | EEL | 624 | 0.78 | 68.27 | 31.73 | 100.00 |
| 40 | VH296047 | 6 | DEV | 1,510 | 0.76 | 63.51 | 36.49 | 100.00 |
| 41 | VH296072 | 6 | EEL | 127 | 0.85 | 76.38 | 23.62 | 100.00 |
| 42 | VH296081 | 6 | EEL | 671 | 0.74 | 67.96 | 32.04 | 100.00 |
| 43 | VH296090 | 6 | DEV | 752 | 0.78 | 67.42 | 32.58 | 100.00 |
| 44 | VH945409 | 6 | EEL | 317 | 0.81 | 68.14 | 31.86 | 100.00 |
| 45 | VH945449 | 6 | EEL | 1,382 | 0.74 | 70.77 | 29.23 | 100.00 |
| 46 | VH945517 | 6 | EEL | 65 | 0.72 | 64.62 | 35.38 | 100.00 |
| 47 | VH945601 | 6 | DEV | 523 | 0.77 | 64.24 | 35.76 | 100.00 |
| 48 | VR552652 | 6 | DEV | 1,589 | 0.77 | 64.32 | 35.68 | 100.00 |
| 49 | VR552697 | 6 | EEL | 541 | 0.71 | 67.10 | 32.90 | 100.00 |
| 50 | VR552707 | 6 | DEV | 341 | 0.76 | 59.82 | 40.18 | 100.00 |
| 51 | VR552727 | 6 | EEL | 638 | 0.73 | 71.16 | 28.84 | 100.00 |
| 52 | VR552822 | 6 | EEL | 715 | 0.79 | 69.93 | 30.07 | 100.00 |
| 53 | VR552862 | 6 | EEL | 719 | 0.76 | 65.09 | 34.91 | 100.00 |
| 54 | VR552867 | 6 | EEL | 1,455 | 0.74 | 65.22 | 34.78 | 100.00 |
| 55 | VH295215 | 6 | COV | 1,642 | 0.68 | 66.57 | 33.43 | 100.00 |
| 56 | VH295230 | 6 | COV | 121 | 0.70 | 71.07 | 28.93 | 100.00 |
| 57 | VH295406 | 6 | COV | 140 | 0.75 | 81.43 | 18.57 | 100.00 |
| 58 | VH295431 | 6 | COV | 760 | 0.69 | 69.21 | 30.79 | 100.00 |
| 59 | VH295452 | 6 | COV | 100 | 0.72 | 70.00 | 30.00 | 100.00 |
| 60 | VH295543 | 6 | COV | 1,389 | 0.65 | 71.42 | 28.58 | 100.00 |
| 61 | VH295793 | 6 | COV | 772 | 0.65 | 70.85 | 29.15 | 100.00 |
| 62 | VH295810 | 6 | COV | 1,595 | 0.68 | 67.90 | 32.10 | 100.00 |
| 63 | VH295835 | 6 | COV | 388 | 0.73 | 72.16 | 27.84 | 100.00 |
| 64 | VH295900 | 6 | COV | 1,545 | 0.66 | 67.06 | 32.94 | 100.00 |
| 65 | VH295920 | 6 | COV | 327 | 0.67 | 65.44 | 34.56 | 100.00 |
| 66 | VH295971 | 6 | COV | 624 | 0.63 | 67.47 | 32.53 | 100.00 |
| 67 | VH296047 | 6 | COV | 1,510 | 0.63 | 65.56 | 34.44 | 100.00 |
| 68 | VH296072 | 6 | COV | 127 | 0.73 | 72.44 | 27.56 | 100.00 |
| 69 | VH296081 | 6 | COV | 671 | 0.71 | 74.37 | 25.63 | 100.00 |
| 70 | VH296090 | 6 | COV | 752 | 0.70 | 69.15 | 30.85 | 100.00 |
| 71 | VH945409 | 6 | COV | 317 | 0.69 | 71.29 | 28.71 | 100.00 |
| 72 | VH945449 | 6 | COV | 1,382 | 0.65 | 73.66 | 26.34 | 100.00 |
| 73 | VH945517 | 6 | COV | 65 | 0.62 | 64.62 | 35.38 | 100.00 |
| 74 | VH945601 | 6 | COV | 523 | 0.66 | 65.77 | 34.23 | 100.00 |
| 75 | VR552652 | 6 | COV | 1,589 | 0.66 | 66.27 | 33.73 | 100.00 |
| 76 | VR552697 | 6 | COV | 541 | 0.72 | 71.35 | 28.65 | 100.00 |
| 77 | VR552707 | 6 | COV | 341 | 0.65 | 62.17 | 37.83 | 100.00 |
| 78 | VR552727 | 6 | COV | 638 | 0.60 | 68.34 | 31.66 | 100.00 |
| 79 | VR552822 | 6 | COV | 715 | 0.68 | 71.75 | 28.25 | 100.00 |
| 80 | VR552862 | 6 | COV | 719 | 0.63 | 70.10 | 29.90 | 100.00 |
| 81 | VR552867 | 6 | COV | 1,455 | 0.70 | 72.78 | 27.22 | 100.00 |

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295663 | 6 | POR | 704 | 0.77 | 64.63 | 35.37 | 100.00 |
| 2 | VH295680 | 6 | POR | 58 | 0.75 | 75.86 | 24.14 | 100.00 |
| 3 | VH295693 | 6 | POR | 185 | 0.81 | 79.46 | 20.54 | 100.00 |
| 4 | VH295754 | 6 | POR | 1,839 | 0.75 | 70.15 | 29.85 | 100.00 |
| 5 | VH295824 | 6 | POR | 1,840 | 0.74 | 68.48 | 31.52 | 100.00 |
| 6 | VH295873 | 6 | POR | 1,562 | 0.77 | 63.19 | 36.81 | 100.00 |
| 7 | VH295936 | 6 | POR | 920 | 0.78 | 67.83 | 32.17 | 100.00 |
| 8 | VH295984 | 6 | POR | 59 | 0.73 | 76.27 | 23.73 | 100.00 |
| 9 | VH945512 | 6 | POR | 360 | 0.80 | 75.00 | 25.00 | 100.00 |
| 10 | VH945532 | 6 | POR | 677 | 0.78 | 64.40 | 35.60 | 100.00 |
| 11 | VH945547 | 6 | POR | 1,880 | 0.74 | 70.21 | 29.79 | 100.00 |
| 12 | VR552642 | 6 | POR | 1,657 | 0.83 | 70.07 | 29.93 | 100.00 |
| 13 | VR552647 | 6 | POR | 1,060 | 0.70 | 69.72 | 30.28 | 100.00 |
| 14 | VR552732 | 6 | POR | 683 | 0.73 | 72.04 | 27.96 | 100.00 |
| 15 | VR552737 | 6 | POR | 75 | 0.64 | 70.67 | 29.33 | 100.00 |
| 16 | VR552757 | 6 | POR | 313 | 0.70 | 67.73 | 32.27 | 100.00 |
| 17 | VR552762 | 6 | POR | 755 | 0.80 | 65.56 | 34.44 | 100.00 |
| 18 | VR552807 | 6 | POR | 653 | 0.74 | 73.66 | 26.34 | 100.00 |
| 19 | VR552857 | 6 | POR | 1,052 | 0.73 | 68.06 | 31.94 | 100.00 |
| 20 | VH295663 | 6 | DEV | 704 | 0.77 | 64.91 | 35.09 | 100.00 |
| 21 | VH295680 | 6 | EEL | 58 | 0.73 | 74.14 | 25.86 | 100.00 |
| 22 | VH295693 | 6 | EEL | 185 | 0.80 | 77.84 | 22.16 | 100.00 |
| 23 | VH295754 | 6 | EEL | 1,839 | 0.75 | 70.04 | 29.96 | 100.00 |
| 24 | VH295824 | 6 | EEL | 1,840 | 0.74 | 68.59 | 31.41 | 100.00 |
| 25 | VH295873 | 6 | DEV | 1,562 | 0.77 | 63.25 | 36.75 | 100.00 |
| 26 | VH295936 | 6 | EEL | 920 | 0.78 | 67.93 | 32.07 | 100.00 |
| 27 | VH295984 | 6 | EEL | 59 | 0.73 | 76.27 | 23.73 | 100.00 |
| 28 | VH945512 | 6 | EEL | 360 | 0.79 | 74.44 | 25.56 | 100.00 |
| 29 | VH945532 | 6 | DEV | 677 | 0.78 | 65.44 | 34.56 | 100.00 |
| 30 | VH945547 | 6 | EEL | 1,880 | 0.75 | 71.01 | 28.99 | 100.00 |
| 31 | VR552642 | 6 | DEV | 1,657 | 0.83 | 70.31 | 29.69 | 100.00 |
| 32 | VR552647 | 6 | EEL | 1,060 | 0.70 | 69.43 | 30.57 | 100.00 |
| 33 | VR552732 | 6 | EEL | 683 | 0.73 | 71.74 | 28.26 | 100.00 |
| 34 | VR552737 | 6 | EEL | 75 | 0.65 | 70.67 | 29.33 | 100.00 |
| 35 | VR552757 | 6 | EEL | 313 | 0.71 | 69.01 | 30.99 | 100.00 |
| 36 | VR552762 | 6 | DEV | 755 | 0.80 | 65.70 | 34.30 | 100.00 |
| 37 | VR552807 | 6 | EEL | 653 | 0.74 | 73.97 | 26.03 | 100.00 |
| 38 | VR552857 | 6 | EEL | 1,052 | 0.73 | 68.44 | 31.56 | 100.00 |
| 39 | VH295663 | 6 | COV | 704 | 0.69 | 70.45 | 29.55 | 100.00 |
| 40 | VH295680 | 6 | COV | 58 | 0.66 | 65.52 | 34.48 | 100.00 |
| 41 | VH295693 | 6 | COV | 185 | 0.71 | 70.81 | 29.19 | 100.00 |
| 42 | VH295754 | 6 | COV | 1,839 | 0.65 | 71.23 | 28.77 | 100.00 |
| 43 | VH295824 | 6 | COV | 1,840 | 0.64 | 73.53 | 26.47 | 100.00 |
| 44 | VH295873 | 6 | COV | 1,562 | 0.69 | 73.94 | 26.06 | 100.00 |
| 45 | VH295936 | 6 | COV | 920 | 0.68 | 74.35 | 25.65 | 100.00 |
| 46 | VH295984 | 6 | COV | 59 | 0.73 | 69.49 | 30.51 | 100.00 |
| 47 | VH945512 | 6 | COV | 360 | 0.68 | 65.28 | 34.72 | 100.00 |
| 48 | VH945532 | 6 | COV | 677 | 0.67 | 70.01 | 29.99 | 100.00 |
| 49 | VH945547 | 6 | COV | 1,880 | 0.67 | 71.70 | 28.30 | 100.00 |
| 50 | VR552642 | 6 | COV | 1,657 | 0.67 | 72.90 | 27.10 | 100.00 |
| 51 | VR552647 | 6 | COV | 1,060 | 0.65 | 71.13 | 28.87 | 100.00 |
| 52 | VR552732 | 6 | COV | 683 | 0.72 | 74.38 | 25.62 | 100.00 |
| 53 | VR552737 | 6 | COV | 75 | 0.66 | 70.67 | 29.33 | 100.00 |
| 54 | VR552757 | 6 | COV | 313 | 0.69 | 77.64 | 22.36 | 100.00 |
| 55 | VR552762 | 6 | COV | 755 | 0.68 | 71.39 | 28.61 | 100.00 |
| 56 | VR552807 | 6 | COV | 653 | 0.75 | 74.43 | 25.57 | 100.00 |
| 57 | VR552857 | 6 | COV | 1,052 | 0.62 | 69.30 | 30.70 | 100.00 |

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295266 | 6 | POR | 642 | 0.78 | 70.87 | 29.13 | 100.00 |
| 2 | VH295309 | 6 | POR | 628 | 0.80 | 75.64 | 24.36 | 100.00 |
| 3 | VH295309 | 6 | POR | 628 | 0.80 | 75.64 | 24.36 | 100.00 |
| 4 | VH295321 | 6 | POR | 105 | 0.77 | 77.14 | 22.86 | 100.00 |
| 5 | VH295334 | 6 | POR | 63 | 0.83 | 80.95 | 19.05 | 100.00 |
| 6 | VH295372 | 6 | POR | 803 | 0.79 | 74.84 | 25.16 | 100.00 |
| 7 | VH295398 | 6 | POR | 1,221 | 0.78 | 73.38 | 26.62 | 100.00 |
| 8 | VH295410 | 6 | POR | 317 | 0.80 | 66.56 | 33.44 | 100.00 |
| 9 | VH295508 | 6 | POR | 69 | 0.75 | 73.91 | 26.09 | 100.00 |
| 10 | VH295528 | 6 | POR | 1,227 | 0.78 | 66.18 | 33.82 | 100.00 |
| 11 | VH295576 | 6 | POR | 1,274 | 0.83 | 73.00 | 27.00 | 100.00 |
| 12 | VH295636 | 6 | POR | 149 | 0.73 | 73.83 | 26.17 | 100.00 |
| 13 | VH295719 | 6 | POR | 1,278 | 0.74 | 74.26 | 25.74 | 100.00 |
| 14 | VH295761 | 6 | POR | 555 | 0.78 | 69.01 | 30.99 | 100.00 |
| 15 | VH295906 | 6 | POR | 55 | 0.84 | 80.00 | 20.00 | 100.00 |
| 16 | VH296104 | 6 | POR | 401 | 0.85 | 80.80 | 19.20 | 100.00 |
| 17 | VH296117 | 6 | POR | 728 | 0.77 | 74.73 | 25.27 | 100.00 |
| 18 | VH945434 | 6 | POR | 1,206 | 0.79 | 70.65 | 29.35 | 100.00 |
| 19 | VH945459 | 6 | POR | 312 | 0.78 | 71.15 | 28.85 | 100.00 |
| 20 | VH945463 | 6 | POR | 59 | 0.81 | 76.27 | 23.73 | 100.00 |
| 21 | VH945527 | 6 | POR | 357 | 0.72 | 69.19 | 30.81 | 100.00 |
| 22 | VH945573 | 6 | POR | 1,165 | 0.79 | 67.21 | 32.79 | 100.00 |
| 23 | VR552667 | 6 | POR | 229 | 0.74 | 55.90 | 44.10 | 100.00 |
| 24 | VR552677 | 6 | POR | 567 | 0.73 | 67.20 | 32.80 | 100.00 |
| 25 | VR552682 | 6 | POR | 361 | 0.82 | 76.45 | 23.55 | 100.00 |
| 26 | VR552772 | 6 | POR | 1,315 | 0.71 | 70.11 | 29.89 | 100.00 |
| 27 | VR552777 | 6 | POR | 157 | 0.80 | 68.79 | 31.21 | 100.00 |
| 28 | VR552787 | 6 | POR | 1,322 | 0.75 | 69.14 | 30.86 | 100.00 |
| 29 | VR552817 | 6 | POR | 618 | 0.80 | 72.33 | 27.67 | 100.00 |
| 30 | VR552837 | 6 | POR | 590 | 0.77 | 68.47 | 31.53 | 100.00 |
| 31 | VH295266 | 6 | EEL | 642 | 0.78 | 69.94 | 30.06 | 100.00 |
| 32 | VH295309 | 6 | EEL | 628 | 0.80 | 75.80 | 24.20 | 100.00 |
| 33 | VH295309 | 6 | EEL | 628 | 0.80 | 75.80 | 24.20 | 100.00 |
| 34 | VH295321 | 6 | EEL | 105 | 0.75 | 74.29 | 25.71 | 100.00 |
| 35 | VH295334 | 6 | EEL | 63 | 0.82 | 79.37 | 20.63 | 100.00 |
| 36 | VH295372 | 6 | EEL | 803 | 0.78 | 74.22 | 25.78 | 100.00 |
| 37 | VH295398 | 6 | EEL | 1,221 | 0.78 | 73.38 | 26.62 | 100.00 |
| 38 | VH295410 | 6 | EEL | 317 | 0.80 | 68.14 | 31.86 | 100.00 |
| 39 | VH295508 | 6 | EEL | 69 | 0.78 | 76.81 | 23.19 | 100.00 |
| 40 | VH295528 | 6 | DEV | 1,227 | 0.78 | 66.83 | 33.17 | 100.00 |
| 41 | VH295576 | 6 | DEV | 1,274 | 0.83 | 72.92 | 27.08 | 100.00 |
| 42 | VH295636 | 6 | EEL | 149 | 0.74 | 75.84 | 24.16 | 100.00 |
| 43 | VH295719 | 6 | EEL | 1,278 | 0.74 | 73.55 | 26.45 | 100.00 |
| 44 | VH295761 | 6 | DEV | 555 | 0.78 | 69.73 | 30.27 | 100.00 |
| 45 | VH295906 | 6 | EEL | 55 | 0.81 | 76.36 | 23.64 | 100.00 |
| 46 | VH296104 | 6 | EEL | 401 | 0.85 | 80.80 | 19.20 | 100.00 |
| 47 | VH296117 | 6 | EEL | 728 | 0.77 | 75.14 | 24.86 | 100.00 |
| 48 | VH945434 | 6 | DEV | 1,206 | 0.79 | 70.48 | 29.52 | 100.00 |
| 49 | VH945459 | 6 | EEL | 312 | 0.78 | 71.47 | 28.53 | 100.00 |
| 50 | VH945463 | 6 | EEL | 59 | 0.76 | 71.19 | 28.81 | 100.00 |
| 51 | VH945527 | 6 | EEL | 357 | 0.74 | 70.59 | 29.41 | 100.00 |
| 52 | VH945573 | 6 | DEV | 1,165 | 0.79 | 66.87 | 33.13 | 100.00 |
| 53 | VR552667 | 6 | DEV | 229 | 0.75 | 59.39 | 40.61 | 100.00 |
| 54 | VR552677 | 6 | EEL | 567 | 0.73 | 68.08 | 31.92 | 100.00 |
| 55 | VR552682 | 6 | EEL | 361 | 0.82 | 76.18 | 23.82 | 100.00 |
| 56 | VR552772 | 6 | EEL | 1,315 | 0.72 | 70.65 | 29.35 | 100.00 |
| 57 | VR552777 | 6 | DEV | 157 | 0.79 | 68.15 | 31.85 | 100.00 |
| 58 | VR552787 | 6 | EEL | 1,322 | 0.76 | 70.05 | 29.95 | 100.00 |
| 59 | VR552817 | 6 | EEL | 618 | 0.81 | 73.30 | 26.70 | 100.00 |
| 60 | VR552837 | 6 | EEL | 590 | 0.76 | 67.63 | 32.37 | 100.00 |
| 61 | VH295266 | 6 | COV | 642 | 0.68 | 70.09 | 29.91 | 100.00 |
| 62 | VH295309 | 6 | COV | 628 | 0.69 | 72.93 | 27.07 | 100.00 |
| 63 | VH295309 | 6 | COV | 628 | 0.69 | 72.93 | 27.07 | 100.00 |
| 64 | VH295321 | 6 | COV | 105 | 0.75 | 77.14 | 22.86 | 100.00 |
| 65 | VH295334 | 6 | COV | 63 | 0.65 | 68.25 | 31.75 | 100.00 |
| 66 | VH295372 | 6 | COV | 803 | 0.66 | 70.73 | 29.27 | 100.00 |
| 67 | VH295398 | 6 | COV | 1,221 | 0.67 | 71.66 | 28.34 | 100.00 |
| 68 | VH295410 | 6 | COV | 317 | 0.60 | 67.82 | 32.18 | 100.00 |
| 69 | VH295508 | 6 | COV | 69 | 0.58 | 66.67 | 33.33 | 100.00 |
| 70 | VH295528 | 6 | COV | 1,227 | 0.62 | 65.53 | 34.47 | 100.00 |
| 71 | VH295576 | 6 | COV | 1,274 | 0.73 | 71.98 | 28.02 | 100.00 |
| 72 | VH295636 | 6 | COV | 149 | 0.69 | 69.80 | 30.20 | 100.00 |
| 73 | VH295719 | 6 | COV | 1,278 | 0.65 | 68.86 | 31.14 | 100.00 |
| 74 | VH295761 | 6 | COV | 555 | 0.66 | 70.09 | 29.91 | 100.00 |
| 75 | VH295906 | 6 | COV | 55 | 0.71 | 78.18 | 21.82 | 100.00 |
| 76 | VH296104 | 6 | COV | 401 | 0.69 | 72.32 | 27.68 | 100.00 |
| 77 | VH296117 | 6 | COV | 728 | 0.62 | 69.78 | 30.22 | 100.00 |
| 78 | VH945434 | 6 | COV | 1,206 | 0.65 | 64.26 | 35.74 | 100.00 |
| 79 | VH945459 | 6 | COV | 312 | 0.60 | 69.87 | 30.13 | 100.00 |
| 80 | VH945463 | 6 | COV | 59 | 0.68 | 71.19 | 28.81 | 100.00 |
| 81 | VH945527 | 6 | COV | 357 | 0.74 | 74.79 | 25.21 | 100.00 |
| 82 | VH945573 | 6 | COV | 1,165 | 0.69 | 71.85 | 28.15 | 100.00 |
| 83 | VR552667 | 6 | COV | 229 | 0.59 | 62.45 | 37.55 | 100.00 |
| 84 | VR552677 | 6 | COV | 567 | 0.63 | 70.55 | 29.45 | 100.00 |
| 85 | VR552682 | 6 | COV | 361 | 0.68 | 73.41 | 26.59 | 100.00 |
| 86 | VR552772 | 6 | COV | 1,315 | 0.65 | 71.56 | 28.44 | 100.00 |
| 87 | VR552777 | 6 | COV | 157 | 0.71 | 75.16 | 24.84 | 100.00 |
| 88 | VR552787 | 6 | COV | 1,322 | 0.68 | 71.86 | 28.14 | 100.00 |
| 89 | VR552817 | 6 | COV | 618 | 0.73 | 71.36 | 28.64 | 100.00 |
| 90 | VR552837 | 6 | COV | 590 | 0.68 | 70.68 | 29.32 | 100.00 |

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295279 | 6 | POR | 78 | 0.81 | 73.08 | 26.92 | 100.00 |
| 2 | VH295294 | 6 | POR | 417 | 0.85 | 76.26 | 23.74 | 100.00 |
| 3 | VH295301 | 6 | POR | 1,119 | 0.75 | 66.31 | 33.69 | 100.00 |
| 4 | VH295357 | 6 | POR | 298 | 0.77 | 74.50 | 25.50 | 100.00 |
| 5 | VH295386 | 6 | POR | 76 | 0.82 | 76.32 | 23.68 | 100.00 |
| 6 | VH295465 | 6 | POR | 126 | 0.74 | 73.81 | 26.19 | 100.00 |
| 7 | VH295486 | 6 | POR | 1,375 | 0.79 | 70.33 | 29.67 | 100.00 |
| 8 | VH295513 | 6 | POR | 62 | 0.79 | 77.42 | 22.58 | 100.00 |
| 9 | VH295596 | 6 | POR | 1,181 | 0.78 | 74.34 | 25.66 | 100.00 |
| 10 | VH295604 | 6 | POR | 575 | 0.84 | 75.65 | 24.35 | 100.00 |
| 11 | VH295624 | 6 | POR | 745 | 0.76 | 68.72 | 31.28 | 100.00 |
| 12 | VH295624 | 6 | POR | 745 | 0.76 | 68.72 | 31.28 | 100.00 |
| 13 | VH295768 | 6 | POR | 1,360 | 0.79 | 70.51 | 29.49 | 100.00 |
| 14 | VH295831 | 6 | POR | 793 | 0.80 | 74.65 | 25.35 | 100.00 |
| 15 | VH295845 | 6 | POR | 333 | 0.80 | 74.77 | 25.23 | 100.00 |
| 16 | VH295978 | 6 | POR | 392 | 0.81 | 78.06 | 21.94 | 100.00 |
| 17 | VH296017 | 6 | POR | 210 | 0.76 | 75.71 | 24.29 | 100.00 |
| 18 | VH296025 | 6 | POR | 1,260 | 0.78 | 74.44 | 25.56 | 100.00 |
| 19 | VH296059 | 6 | POR | 457 | 0.80 | 70.24 | 29.76 | 100.00 |
| 20 | VH296097 | 6 | POR | 425 | 0.76 | 69.88 | 30.12 | 100.00 |
| 21 | VH945497 | 6 | POR | 279 | 0.80 | 75.99 | 24.01 | 100.00 |
| 22 | VH945502 | 6 | POR | 1,316 | 0.74 | 70.52 | 29.48 | 100.00 |
| 23 | VH945552 | 6 | POR | 1,312 | 0.75 | 72.64 | 27.36 | 100.00 |
| 24 | VH945593 | 6 | POR | 1,127 | 0.74 | 65.93 | 34.07 | 100.00 |
| 25 | VR552657 | 6 | POR | 1,347 | 0.79 | 72.61 | 27.39 | 100.00 |
| 26 | VR552847 | 6 | POR | 1,298 | 0.73 | 66.64 | 33.36 | 100.00 |
| 27 | VR552852 | 6 | POR | 1,517 | 0.76 | 68.62 | 31.38 | 100.00 |
| 28 | VR552887 | 6 | POR | 1,293 | 0.74 | 71.31 | 28.69 | 100.00 |
| 29 | VR552902 | 6 | POR | 1,244 | 0.73 | 73.15 | 26.85 | 100.00 |
| 30 | VR552907 | 6 | POR | 1,269 | 0.79 | 75.18 | 24.82 | 100.00 |
| 31 | VH295279 | 6 | EEL | 78 | 0.80 | 71.79 | 28.21 | 100.00 |
| 32 | VH295294 | 6 | EEL | 417 | 0.84 | 75.30 | 24.70 | 100.00 |
| 33 | VH295301 | 6 | DEV | 1,119 | 0.76 | 67.47 | 32.53 | 100.00 |
| 34 | VH295357 | 6 | EEL | 298 | 0.78 | 75.50 | 24.50 | 100.00 |
| 35 | VH295386 | 6 | EEL | 76 | 0.82 | 76.32 | 23.68 | 100.00 |
| 36 | VH295465 | 6 | EEL | 126 | 0.75 | 75.40 | 24.60 | 100.00 |
| 37 | VH295486 | 6 | EEL | 1,375 | 0.78 | 68.73 | 31.27 | 100.00 |
| 38 | VH295513 | 6 | EEL | 62 | 0.78 | 77.42 | 22.58 | 100.00 |
| 39 | VH295596 | 6 | DEV | 1,181 | 0.78 | 74.43 | 25.57 | 100.00 |
| 40 | VH295604 | 6 | EEL | 575 | 0.83 | 74.61 | 25.39 | 100.00 |
| 41 | VH295624 | 6 | EEL | 745 | 0.76 | 68.72 | 31.28 | 100.00 |
| 42 | VH295624 | 6 | EEL | 745 | 0.76 | 68.72 | 31.28 | 100.00 |
| 43 | VH295768 | 6 | EEL | 1,360 | 0.79 | 70.29 | 29.71 | 100.00 |
| 44 | VH295831 | 6 | EEL | 793 | 0.80 | 74.27 | 25.73 | 100.00 |
| 45 | VH295845 | 6 | EEL | 333 | 0.78 | 72.37 | 27.63 | 100.00 |
| 46 | VH295978 | 6 | EEL | 392 | 0.81 | 78.06 | 21.94 | 100.00 |
| 47 | VH296017 | 6 | EEL | 210 | 0.77 | 76.67 | 23.33 | 100.00 |
| 48 | VH296025 | 6 | EEL | 1,260 | 0.78 | 74.37 | 25.63 | 100.00 |
| 49 | VH296059 | 6 | DEV | 457 | 0.81 | 71.33 | 28.67 | 100.00 |
| 50 | VH296097 | 6 | DEV | 425 | 0.76 | 70.12 | 29.88 | 100.00 |
| 51 | VH945497 | 6 | EEL | 279 | 0.80 | 75.63 | 24.37 | 100.00 |
| 52 | VH945502 | 6 | EEL | 1,316 | 0.74 | 70.74 | 29.26 | 100.00 |
| 53 | VH945552 | 6 | DEV | 1,312 | 0.75 | 73.17 | 26.83 | 100.00 |
| 54 | VH945593 | 6 | DEV | 1,127 | 0.74 | 65.75 | 34.25 | 100.00 |
| 55 | VR552657 | 6 | EEL | 1,347 | 0.78 | 71.71 | 28.29 | 100.00 |
| 56 | VR552847 | 6 | DEV | 1,298 | 0.74 | 67.41 | 32.59 | 100.00 |
| 57 | VR552852 | 6 | EEL | 1,517 | 0.76 | 68.82 | 31.18 | 100.00 |
| 58 | VR552887 | 6 | EEL | 1,293 | 0.74 | 71.31 | 28.69 | 100.00 |
| 59 | VR552902 | 6 | EEL | 1,244 | 0.73 | 73.39 | 26.61 | 100.00 |
| 60 | VR552907 | 6 | EEL | 1,269 | 0.79 | 74.70 | 25.30 | 100.00 |
| 61 | VH295279 | 6 | COV | 78 | 0.66 | 66.67 | 33.33 | 100.00 |
| 62 | VH295294 | 6 | COV | 417 | 0.66 | 70.74 | 29.26 | 100.00 |
| 63 | VH295301 | 6 | COV | 1,119 | 0.59 | 72.48 | 27.52 | 100.00 |
| 64 | VH295357 | 6 | COV | 298 | 0.71 | 74.16 | 25.84 | 100.00 |
| 65 | VH295386 | 6 | COV | 76 | 0.62 | 65.79 | 34.21 | 100.00 |
| 66 | VH295465 | 6 | COV | 126 | 0.72 | 73.02 | 26.98 | 100.00 |
| 67 | VH295486 | 6 | COV | 1,375 | 0.65 | 79.78 | 20.22 | 100.00 |
| 68 | VH295513 | 6 | COV | 62 | 0.75 | 72.58 | 27.42 | 100.00 |
| 69 | VH295596 | 6 | COV | 1,181 | 0.64 | 75.61 | 24.39 | 100.00 |
| 70 | VH295604 | 6 | COV | 575 | 0.67 | 73.91 | 26.09 | 100.00 |
| 71 | VH295624 | 6 | COV | 745 | 0.60 | 75.57 | 24.43 | 100.00 |
| 72 | VH295624 | 6 | COV | 745 | 0.60 | 75.57 | 24.43 | 100.00 |
| 73 | VH295768 | 6 | COV | 1,360 | 0.67 | 78.01 | 21.99 | 100.00 |
| 74 | VH295831 | 6 | COV | 793 | 0.70 | 71.12 | 28.88 | 100.00 |
| 75 | VH295845 | 6 | COV | 333 | 0.69 | 74.77 | 25.23 | 100.00 |
| 76 | VH295978 | 6 | COV | 392 | 0.73 | 73.21 | 26.79 | 100.00 |
| 77 | VH296017 | 6 | COV | 210 | 0.70 | 73.33 | 26.67 | 100.00 |
| 78 | VH296025 | 6 | COV | 1,260 | 0.71 | 74.44 | 25.56 | 100.00 |
| 79 | VH296059 | 6 | COV | 457 | 0.62 | 70.02 | 29.98 | 100.00 |
| 80 | VH296097 | 6 | COV | 425 | 0.61 | 69.41 | 30.59 | 100.00 |
| 81 | VH945497 | 6 | COV | 279 | 0.74 | 77.42 | 22.58 | 100.00 |
| 82 | VH945502 | 6 | COV | 1,316 | 0.64 | 78.65 | 21.35 | 100.00 |
| 83 | VH945552 | 6 | COV | 1,312 | 0.63 | 74.62 | 25.38 | 100.00 |
| 84 | VH945593 | 6 | COV | 1,127 | 0.66 | 75.42 | 24.58 | 100.00 |
| 85 | VR552657 | 6 | COV | 1,347 | 0.62 | 74.16 | 25.84 | 100.00 |
| 86 | VR552847 | 6 | COV | 1,298 | 0.63 | 71.88 | 28.12 | 100.00 |
| 87 | VR552852 | 6 | COV | 1,517 | 0.59 | 75.68 | 24.32 | 100.00 |
| 88 | VR552887 | 6 | COV | 1,293 | 0.67 | 74.63 | 25.37 | 100.00 |
| 89 | VR552902 | 6 | COV | 1,244 | 0.65 | 74.68 | 25.32 | 100.00 |
| 90 | VR552907 | 6 | COV | 1,269 | 0.67 | 72.26 | 27.74 | 100.00 |

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Prompt** | **Item ID** | **Score Points** | **Dimension Type** | **Student N** | **Quadratic-Weighted Kappa** | **Percent Exact** | **Percent Adjacent** | **Percent Exact + Adjacent** |
| 1 | VH295245 | 6 | POR | 834 | 0.80 | 70.38 | 29.62 | 100.00 |
| 2 | VH295286 | 6 | POR | 856 | 0.82 | 72.08 | 27.92 | 100.00 |
| 3 | VH295365 | 6 | POR | 1,306 | 0.80 | 73.35 | 26.65 | 100.00 |
| 4 | VH295391 | 6 | POR | 1,091 | 0.80 | 71.86 | 28.14 | 100.00 |
| 5 | VH295501 | 6 | POR | 1,294 | 0.79 | 72.95 | 27.05 | 100.00 |
| 6 | VH295550 | 6 | POR | 822 | 0.79 | 66.30 | 33.70 | 100.00 |
| 7 | VH295617 | 6 | POR | 754 | 0.80 | 73.61 | 26.39 | 100.00 |
| 8 | VH295652 | 6 | POR | 100 | 0.76 | 63.00 | 37.00 | 100.00 |
| 9 | VH295700 | 6 | POR | 857 | 0.77 | 70.48 | 29.52 | 100.00 |
| 10 | VH295700 | 6 | POR | 857 | 0.77 | 70.48 | 29.52 | 100.00 |
| 11 | VH295747 | 6 | POR | 799 | 0.83 | 74.72 | 25.28 | 100.00 |
| 12 | VH295803 | 6 | POR | 869 | 0.79 | 73.99 | 26.01 | 100.00 |
| 13 | VH295816 | 6 | POR | 866 | 0.78 | 69.17 | 30.83 | 100.00 |
| 14 | VH295884 | 6 | POR | 1,311 | 0.80 | 72.16 | 27.84 | 100.00 |
| 15 | VH296004 | 6 | POR | 914 | 0.80 | 67.29 | 32.71 | 100.00 |
| 16 | VH296053 | 6 | POR | 724 | 0.82 | 75.28 | 24.72 | 100.00 |
| 17 | VH945419 | 6 | POR | 861 | 0.82 | 73.52 | 26.48 | 100.00 |
| 18 | VH945469 | 6 | POR | 958 | 0.79 | 69.73 | 30.27 | 100.00 |
| 19 | VH945522 | 6 | POR | 802 | 0.80 | 70.82 | 29.18 | 100.00 |
| 20 | VH945537 | 6 | POR | 845 | 0.79 | 72.54 | 27.46 | 100.00 |
| 21 | VR552632 | 6 | POR | 1,331 | 0.76 | 70.77 | 29.23 | 100.00 |
| 22 | VR552672 | 6 | POR | 856 | 0.78 | 68.81 | 31.19 | 100.00 |
| 23 | VR552717 | 6 | POR | 1,478 | 0.81 | 72.73 | 27.27 | 100.00 |
| 24 | VR552752 | 6 | POR | 878 | 0.76 | 61.73 | 38.27 | 100.00 |
| 25 | VR552767 | 6 | POR | 838 | 0.83 | 73.63 | 26.37 | 100.00 |
| 26 | VR552827 | 6 | POR | 1,380 | 0.76 | 72.25 | 27.75 | 100.00 |
| 27 | VR552877 | 6 | POR | 1,414 | 0.81 | 71.43 | 28.57 | 100.00 |
| 28 | VH295245 | 6 | EEL | 834 | 0.80 | 70.14 | 29.86 | 100.00 |
| 29 | VH295286 | 6 | EEL | 856 | 0.83 | 72.90 | 27.10 | 100.00 |
| 30 | VH295365 | 6 | EEL | 1,306 | 0.80 | 73.58 | 26.42 | 100.00 |
| 31 | VH295391 | 6 | EEL | 1,091 | 0.79 | 71.40 | 28.60 | 100.00 |
| 32 | VH295501 | 6 | EEL | 1,294 | 0.78 | 72.72 | 27.28 | 100.00 |
| 33 | VH295550 | 6 | EEL | 822 | 0.79 | 66.67 | 33.33 | 100.00 |
| 34 | VH295617 | 6 | EEL | 754 | 0.79 | 72.41 | 27.59 | 100.00 |
| 35 | VH295652 | 6 | EEL | 100 | 0.78 | 65.00 | 35.00 | 100.00 |
| 36 | VH295700 | 6 | EEL | 857 | 0.78 | 70.83 | 29.17 | 100.00 |
| 37 | VH295700 | 6 | EEL | 857 | 0.78 | 70.83 | 29.17 | 100.00 |
| 38 | VH295747 | 6 | EEL | 799 | 0.83 | 74.09 | 25.91 | 100.00 |
| 39 | VH295803 | 6 | EEL | 869 | 0.79 | 74.11 | 25.89 | 100.00 |
| 40 | VH295816 | 6 | EEL | 866 | 0.78 | 68.94 | 31.06 | 100.00 |
| 41 | VH295884 | 6 | EEL | 1,311 | 0.80 | 72.08 | 27.92 | 100.00 |
| 42 | VH296004 | 6 | EEL | 914 | 0.80 | 67.18 | 32.82 | 100.00 |
| 43 | VH296053 | 6 | EEL | 724 | 0.83 | 75.55 | 24.45 | 100.00 |
| 44 | VH945419 | 6 | EEL | 861 | 0.82 | 73.75 | 26.25 | 100.00 |
| 45 | VH945469 | 6 | EEL | 958 | 0.79 | 69.73 | 30.27 | 100.00 |
| 46 | VH945522 | 6 | EEL | 802 | 0.80 | 71.07 | 28.93 | 100.00 |
| 47 | VH945537 | 6 | EEL | 845 | 0.79 | 72.66 | 27.34 | 100.00 |
| 48 | VR552632 | 6 | EEL | 1,331 | 0.76 | 70.77 | 29.23 | 100.00 |
| 49 | VR552672 | 6 | EEL | 856 | 0.78 | 68.93 | 31.07 | 100.00 |
| 50 | VR552717 | 6 | EEL | 1,478 | 0.80 | 72.46 | 27.54 | 100.00 |
| 51 | VR552752 | 6 | EEL | 878 | 0.76 | 61.73 | 38.27 | 100.00 |
| 52 | VR552767 | 6 | EEL | 838 | 0.83 | 73.75 | 26.25 | 100.00 |
| 53 | VR552827 | 6 | EEL | 1,380 | 0.76 | 72.03 | 27.97 | 100.00 |
| 54 | VR552877 | 6 | EEL | 1,414 | 0.81 | 70.79 | 29.21 | 100.00 |
| 55 | VH295245 | 6 | COV | 834 | 0.69 | 74.58 | 25.42 | 100.00 |
| 56 | VH295286 | 6 | COV | 856 | 0.67 | 75.23 | 24.77 | 100.00 |
| 57 | VH295365 | 6 | COV | 1,306 | 0.62 | 74.66 | 25.34 | 100.00 |
| 58 | VH295391 | 6 | COV | 1,091 | 0.68 | 68.38 | 31.62 | 100.00 |
| 59 | VH295501 | 6 | COV | 1,294 | 0.68 | 69.32 | 30.68 | 100.00 |
| 60 | VH295550 | 6 | COV | 822 | 0.68 | 69.71 | 30.29 | 100.00 |
| 61 | VH295617 | 6 | COV | 754 | 0.66 | 70.95 | 29.05 | 100.00 |
| 62 | VH295652 | 6 | COV | 100 | 0.73 | 78.00 | 22.00 | 100.00 |
| 63 | VH295700 | 6 | COV | 857 | 0.73 | 74.21 | 25.79 | 100.00 |
| 64 | VH295700 | 6 | COV | 857 | 0.73 | 74.21 | 25.79 | 100.00 |
| 65 | VH295747 | 6 | COV | 799 | 0.62 | 72.97 | 27.03 | 100.00 |
| 66 | VH295803 | 6 | COV | 869 | 0.71 | 70.89 | 29.11 | 100.00 |
| 67 | VH295816 | 6 | COV | 866 | 0.63 | 71.48 | 28.52 | 100.00 |
| 68 | VH295884 | 6 | COV | 1,311 | 0.64 | 73.30 | 26.70 | 100.00 |
| 69 | VH296004 | 6 | COV | 914 | 0.70 | 73.30 | 26.70 | 100.00 |
| 70 | VH296053 | 6 | COV | 724 | 0.66 | 73.07 | 26.93 | 100.00 |
| 71 | VH945419 | 6 | COV | 861 | 0.65 | 73.17 | 26.83 | 100.00 |
| 72 | VH945469 | 6 | COV | 958 | 0.69 | 71.92 | 28.08 | 100.00 |
| 73 | VH945522 | 6 | COV | 802 | 0.71 | 74.19 | 25.81 | 100.00 |
| 74 | VH945537 | 6 | COV | 845 | 0.68 | 75.15 | 24.85 | 100.00 |
| 75 | VR552632 | 6 | COV | 1,331 | 0.64 | 72.13 | 27.87 | 100.00 |
| 76 | VR552672 | 6 | COV | 856 | 0.68 | 73.95 | 26.05 | 100.00 |
| 77 | VR552717 | 6 | COV | 1,478 | 0.67 | 74.83 | 25.17 | 100.00 |
| 78 | VR552752 | 6 | COV | 878 | 0.67 | 71.87 | 28.13 | 100.00 |
| 79 | VR552767 | 6 | COV | 838 | 0.63 | 73.99 | 26.01 | 100.00 |
| 80 | VR552827 | 6 | COV | 1,380 | 0.67 | 72.46 | 27.54 | 100.00 |
| 81 | VR552877 | 6 | COV | 1,414 | 0.68 | 76.59 | 23.41 | 100.00 |

### Appendix 8.J: Correlations Between Content Areas

**Notes for the tables in appendix 8.J:**

* 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.J. Correlations for Gender

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Male | 205,740 | 208,333 | 205,344 | 0.79 |
| 3 | Female | 197,732 | 200,134 | 197,373 | 0.79 |
| 4 | Male | 210,832 | 213,281 | 210,404 | 0.80 |
| 4 | Female | 202,548 | 204,760 | 202,135 | 0.79 |
| 5 | Male | 213,482 | 215,642 | 213,014 | 0.80 |
| 5 | Female | 204,814 | 206,752 | 204,352 | 0.79 |
| 6 | Male | 214,661 | 216,401 | 213,939 | 0.81 |
| 6 | Female | 205,538 | 207,181 | 204,853 | 0.80 |
| 7 | Male | 217,265 | 218,691 | 216,100 | 0.80 |
| 7 | Female | 206,772 | 207,943 | 205,564 | 0.78 |
| 8 | Male | 217,545 | 218,718 | 216,218 | 0.79 |
| 8 | Female | 206,771 | 207,755 | 205,515 | 0.77 |
| 11 | Male | 222,991 | 222,826 | 220,364 | 0.76 |
| 11 | Female | 211,347 | 210,932 | 208,727 | 0.73 |

Table 8.J. Correlations for Primary Ethnicity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | American Indian or Alaska Native | 1,610 | 1,611 | 1,595 | 0.77 |
| 3 | Asian | 41,788 | 42,777 | 41,739 | 0.78 |
| 3 | Native Hawaiian or Other Pacific Islander | 1,580 | 1,588 | 1,577 | 0.75 |
| 3 | Filipino | 8,449 | 8,485 | 8,437 | 0.75 |
| 3 | Hispanic or Latino | 224,552 | 227,831 | 224,179 | 0.74 |
| 3 | Black or African American | 18,846 | 18,845 | 18,767 | 0.75 |
| 3 | White | 81,378 | 81,936 | 81,217 | 0.76 |
| 3 | Two or more races | 25,371 | 25,496 | 25,308 | 0.79 |
| 3 | Unknown | 0 | 0 | 0 | N/A |
| 4 | American Indian or Alaska Native | 1,829 | 1,832 | 1,818 | 0.76 |
| 4 | Asian | 42,148 | 43,048 | 42,099 | 0.79 |
| 4 | Native Hawaiian or Other Pacific Islander | 1,686 | 1,704 | 1,681 | 0.77 |
| 4 | Filipino | 8,798 | 8,827 | 8,788 | 0.76 |
| 4 | Hispanic or Latino | 229,492 | 232,554 | 229,047 | 0.75 |
| 4 | Black or African American | 20,133 | 20,119 | 20,049 | 0.75 |
| 4 | White | 84,472 | 84,999 | 84,294 | 0.76 |
| 4 | Two or more races | 24,921 | 25,058 | 24,862 | 0.79 |
| 4 | Unknown | 0 | 0 | 0 | N/A |
| 5 | American Indian or Alaska Native | 1,812 | 1,806 | 1,794 | 0.75 |
| 5 | Asian | 44,175 | 44,958 | 44,115 | 0.79 |
| 5 | Native Hawaiian or Other Pacific Islander | 1,708 | 1,708 | 1,697 | 0.76 |
| 5 | Filipino | 9,372 | 9,414 | 9,367 | 0.76 |
| 5 | Hispanic or Latino | 232,285 | 235,027 | 231,785 | 0.74 |
| 5 | Black or African American | 20,894 | 20,892 | 20,808 | 0.75 |
| 5 | White | 83,998 | 84,443 | 83,818 | 0.77 |
| 5 | Two or more races | 24,169 | 24,264 | 24,099 | 0.80 |
| 5 | Unknown | 0 | 0 | 0 | N/A |
| 6 | American Indian or Alaska Native | 1,786 | 1,788 | 1,774 | 0.76 |
| 6 | Asian | 43,477 | 44,168 | 43,420 | 0.78 |
| 6 | Native Hawaiian or Other Pacific Islander | 1,808 | 1,816 | 1,798 | 0.78 |
| 6 | Filipino | 9,419 | 9,472 | 9,409 | 0.77 |
| 6 | Hispanic or Latino | 236,208 | 238,537 | 235,434 | 0.75 |
| 6 | Black or African American | 20,994 | 20,936 | 20,841 | 0.77 |
| 6 | White | 83,424 | 83,738 | 83,129 | 0.77 |
| 6 | Two or more races | 23,273 | 23,317 | 23,176 | 0.80 |
| 6 | Unknown | 0 | 0 | 0 | N/A |
| 7 | American Indian or Alaska Native | 1,796 | 1,794 | 1,777 | 0.73 |
| 7 | Asian | 41,721 | 42,308 | 41,622 | 0.77 |
| 7 | Native Hawaiian or Other Pacific Islander | 1,785 | 1,789 | 1,772 | 0.73 |
| 7 | Filipino | 9,616 | 9,621 | 9,589 | 0.75 |
| 7 | Hispanic or Latino | 240,484 | 242,300 | 239,074 | 0.73 |
| 7 | Black or African American | 21,334 | 21,239 | 21,110 | 0.73 |
| 7 | White | 84,942 | 85,199 | 84,508 | 0.76 |
| 7 | Two or more races | 22,634 | 22,661 | 22,484 | 0.79 |
| 7 | Unknown | 0 | 0 | 0 | N/A |
| 8 | American Indian or Alaska Native | 1,820 | 1,809 | 1,794 | 0.75 |
| 8 | Asian | 41,993 | 42,465 | 41,891 | 0.77 |
| 8 | Native Hawaiian or Other Pacific Islander | 1,846 | 1,856 | 1,829 | 0.74 |
| 8 | Filipino | 10,049 | 10,052 | 10,007 | 0.74 |
| 8 | Hispanic or Latino | 240,499 | 242,058 | 238,989 | 0.73 |
| 8 | Black or African American | 21,454 | 21,387 | 21,227 | 0.73 |
| 8 | White | 85,222 | 85,399 | 84,702 | 0.76 |
| 8 | Two or more races | 21,812 | 21,825 | 21,669 | 0.78 |
| 8 | Unknown | 0 | 0 | 0 | N/A |
| 11 | American Indian or Alaska Native | 1,922 | 1,884 | 1,866 | 0.70 |
| 11 | Asian | 43,175 | 43,207 | 42,825 | 0.72 |
| 11 | Native Hawaiian or Other Pacific Islander | 1,866 | 1,854 | 1,831 | 0.71 |
| 11 | Filipino | 11,270 | 11,254 | 11,170 | 0.70 |
| 11 | Hispanic or Latino | 247,273 | 247,280 | 244,346 | 0.69 |
| 11 | Black or African American | 20,743 | 20,576 | 20,336 | 0.68 |
| 11 | White | 88,800 | 88,469 | 87,687 | 0.72 |
| 11 | Two or more races | 20,240 | 20,179 | 19,961 | 0.75 |
| 11 | Unknown | 0 | 0 | 0 | N/A |

Table 8.J. Correlations for English Language Fluency

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | EL | 90,245 | 95,521 | 90,098 | 0.66 |
| 3 | EO | 263,366 | 263,075 | 262,812 | 0.78 |
| 3 | RFEP | 25,272 | 25,268 | 25,253 | 0.69 |
| 3 | IFEP | 24,576 | 24,563 | 24,542 | 0.76 |
| 3 | ADEL | 0 | 0 | 0 | N/A |
| 3 | English classification—TBD | 33 | 60 | 33 | 0.78 |
| 3 | English classification—No Response | 82 | 82 | 81 | 0.71 |
| 4 | EL | 85,891 | 90,840 | 85,709 | 0.63 |
| 4 | EO | 263,429 | 263,143 | 262,857 | 0.79 |
| 4 | RFEP | 35,926 | 35,904 | 35,885 | 0.71 |
| 4 | IFEP | 28,148 | 28,134 | 28,105 | 0.77 |
| 4 | ADEL | 0 | 0 | 0 | N/A |
| 4 | English classification—TBD | 24 | 58 | 22 | 0.44 |
| 4 | English classification—No Response | 61 | 62 | 60 | 0.84 |
| 5 | EL | 76,340 | 80,771 | 76,140 | 0.59 |
| 5 | EO | 259,970 | 259,640 | 259,355 | 0.79 |
| 5 | RFEP | 55,532 | 55,489 | 55,460 | 0.72 |
| 5 | IFEP | 26,479 | 26,472 | 26,436 | 0.77 |
| 5 | ADEL | 0 | 0 | 0 | N/A |
| 5 | English classification—TBD | 29 | 76 | 29 | 0.76 |
| 5 | English classification—No Response | 63 | 64 | 63 | 0.76 |
| 6 | EL | 68,581 | 72,492 | 68,305 | 0.58 |
| 6 | EO | 252,970 | 252,496 | 252,032 | 0.80 |
| 6 | RFEP | 82,201 | 82,112 | 82,031 | 0.73 |
| 6 | IFEP | 16,554 | 16,559 | 16,530 | 0.77 |
| 6 | ADEL | 0 | 0 | 0 | N/A |
| 6 | English classification—TBD | 33 | 61 | 33 | 0.70 |
| 6 | English classification—No Response | 50 | 52 | 50 | 0.68 |
| 7 | EL | 61,188 | 64,662 | 60,781 | 0.50 |
| 7 | EO | 250,222 | 249,467 | 248,657 | 0.78 |
| 7 | RFEP | 95,644 | 95,510 | 95,301 | 0.72 |
| 7 | IFEP | 17,184 | 17,179 | 17,124 | 0.76 |
| 7 | ADEL | 0 | 0 | 0 | N/A |
| 7 | English classification—TBD | 31 | 49 | 30 | 0.69 |
| 7 | English classification—No Response | 43 | 44 | 43 | 0.77 |
| 8 | EL | 51,369 | 54,386 | 50,995 | 0.49 |
| 8 | EO | 243,466 | 242,751 | 241,785 | 0.78 |
| 8 | RFEP | 111,592 | 111,435 | 111,145 | 0.73 |
| 8 | IFEP | 18,201 | 18,184 | 18,116 | 0.75 |
| 8 | ADEL | 0 | 0 | 0 | N/A |
| 8 | English classification—TBD | 34 | 60 | 34 | 0.84 |
| 8 | English classification—No Response | 33 | 35 | 33 | 0.59 |
| 11 | EL | 46,135 | 47,263 | 45,312 | 0.42 |
| 11 | EO | 234,987 | 233,800 | 232,036 | 0.74 |
| 11 | RFEP | 133,432 | 132,951 | 132,138 | 0.69 |
| 11 | IFEP | 20,555 | 20,500 | 20,359 | 0.70 |
| 11 | ADEL | 95 | 97 | 94 | 0.37 |
| 11 | English classification—TBD | 33 | 40 | 32 | 0.72 |
| 11 | English classification—No Response | 52 | 52 | 51 | 0.72 |

Table 8.J. Correlations for Economic Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Economically disadvantaged | 265,456 | 268,495 | 264,897 | 0.75 |
| 3 | Not economically disadvantaged | 138,118 | 140,074 | 137,922 | 0.77 |
| 4 | Economically disadvantaged | 272,410 | 275,262 | 271,785 | 0.75 |
| 4 | Not economically disadvantaged | 141,069 | 142,879 | 140,853 | 0.77 |
| 5 | Economically disadvantaged | 274,901 | 277,344 | 274,200 | 0.75 |
| 5 | Not economically disadvantaged | 143,512 | 145,168 | 143,283 | 0.78 |
| 6 | Economically disadvantaged | 277,289 | 279,342 | 276,223 | 0.76 |
| 6 | Not economically disadvantaged | 143,100 | 144,430 | 142,758 | 0.78 |
| 7 | Economically disadvantaged | 276,449 | 278,067 | 274,661 | 0.74 |
| 7 | Not economically disadvantaged | 147,863 | 148,844 | 147,275 | 0.77 |
| 8 | Economically disadvantaged | 276,528 | 277,850 | 274,692 | 0.74 |
| 8 | Not economically disadvantaged | 148,167 | 149,001 | 147,416 | 0.77 |
| 11 | Economically disadvantaged | 271,525 | 271,028 | 268,017 | 0.70 |
| 11 | Not economically disadvantaged | 163,764 | 163,675 | 162,005 | 0.74 |

Table 8.J. Correlations for Disability Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Disability | 55,182 | 55,128 | 54,992 | 0.74 |
| 3 | No disability | 348,392 | 353,441 | 347,827 | 0.78 |
| 4 | Disability | 57,273 | 57,160 | 57,039 | 0.74 |
| 4 | No disability | 356,206 | 360,981 | 355,599 | 0.78 |
| 5 | Disability | 56,680 | 56,582 | 56,424 | 0.73 |
| 5 | No disability | 361,733 | 365,930 | 361,059 | 0.77 |
| 6 | Disability | 54,248 | 54,049 | 53,870 | 0.73 |
| 6 | No disability | 366,141 | 369,723 | 365,111 | 0.78 |
| 7 | Disability | 52,702 | 52,467 | 52,157 | 0.69 |
| 7 | No disability | 371,610 | 374,444 | 369,779 | 0.76 |
| 8 | Disability | 50,814 | 50,587 | 50,218 | 0.68 |
| 8 | No disability | 373,881 | 376,264 | 371,890 | 0.76 |
| 11 | Disability | 48,068 | 47,669 | 47,012 | 0.60 |
| 11 | No disability | 387,221 | 387,034 | 383,010 | 0.72 |

Table 8.J. Correlations for Migrant Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Migrant education | 3,389 | 3,538 | 3,386 | 0.70 |
| 3 | Not migrant education | 400,185 | 405,031 | 399,433 | 0.78 |
| 4 | Migrant education | 3,341 | 3,469 | 3,334 | 0.70 |
| 4 | Not migrant education | 410,138 | 414,672 | 409,304 | 0.79 |
| 5 | Migrant education | 3,304 | 3,443 | 3,300 | 0.73 |
| 5 | Not migrant education | 415,109 | 419,069 | 414,183 | 0.79 |
| 6 | Migrant education | 3,315 | 3,423 | 3,303 | 0.73 |
| 6 | Not migrant education | 417,074 | 420,349 | 415,678 | 0.79 |
| 7 | Migrant education | 3,195 | 3,284 | 3,177 | 0.70 |
| 7 | Not migrant education | 421,117 | 423,627 | 418,759 | 0.78 |
| 8 | Migrant education | 3,262 | 3,348 | 3,251 | 0.72 |
| 8 | Not migrant education | 421,433 | 423,503 | 418,857 | 0.78 |
| 11 | Migrant education | 3,023 | 3,058 | 2,996 | 0.69 |
| 11 | Not migrant education | 432,266 | 431,645 | 427,026 | 0.74 |

Table 8.J. Correlations for Military Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Armed forces family member | 6,108 | 6,121 | 6,096 | 0.77 |
| 3 | Not armed forces family member | 397,466 | 402,448 | 396,723 | 0.78 |
| 4 | Armed forces family member | 6,511 | 6,513 | 6,493 | 0.78 |
| 4 | Not armed forces family member | 406,968 | 411,628 | 406,145 | 0.79 |
| 5 | Armed forces family member | 6,486 | 6,497 | 6,478 | 0.77 |
| 5 | Not armed forces family member | 411,927 | 416,015 | 411,005 | 0.79 |
| 6 | Armed forces family member | 5,135 | 5,133 | 5,119 | 0.78 |
| 6 | Not armed forces family member | 415,254 | 418,639 | 413,862 | 0.80 |
| 7 | Armed forces family member | 5,003 | 5,016 | 4,987 | 0.76 |
| 7 | Not armed forces family member | 419,309 | 421,895 | 416,949 | 0.78 |
| 8 | Armed forces family member | 5,970 | 5,971 | 5,940 | 0.78 |
| 8 | Not armed forces family member | 418,725 | 420,880 | 416,168 | 0.78 |
| 11 | Armed forces family member | 6,190 | 6,191 | 6,140 | 0.71 |
| 11 | Not armed forces family member | 429,099 | 428,512 | 423,882 | 0.74 |

Table 8.J. Correlations for Homeless Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Homeless | 14,348 | 15,284 | 14,300 | 0.71 |
| 3 | Not homeless | 389,226 | 393,285 | 388,519 | 0.78 |
| 4 | Homeless | 15,180 | 16,034 | 15,124 | 0.72 |
| 4 | Not homeless | 398,299 | 402,107 | 397,514 | 0.79 |
| 5 | Homeless | 14,830 | 15,581 | 14,755 | 0.72 |
| 5 | Not homeless | 403,583 | 406,931 | 402,728 | 0.79 |
| 6 | Homeless | 14,179 | 14,859 | 14,088 | 0.73 |
| 6 | Not homeless | 406,210 | 408,913 | 404,893 | 0.79 |
| 7 | Homeless | 13,245 | 13,861 | 13,115 | 0.71 |
| 7 | Not homeless | 411,067 | 413,050 | 408,821 | 0.78 |
| 8 | Homeless | 13,225 | 13,740 | 13,085 | 0.72 |
| 8 | Not homeless | 411,470 | 413,111 | 409,023 | 0.78 |
| 11 | Homeless | 13,516 | 13,647 | 13,281 | 0.68 |
| 11 | Not homeless | 421,773 | 421,056 | 416,741 | 0.74 |

Table 8.J. Correlations for Foster Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level** | **Student Group** | **ELA Sample Size** | **Mathematics Sample Size** | **Correlation Sample Size** | **Correlation** |
| 3 | Foster youth | 1,440 | 1,437 | 1,433 | 0.73 |
| 3 | Not foster youth | 402,134 | 407,132 | 401,386 | 0.78 |
| 4 | Foster youth | 1,370 | 1,363 | 1,359 | 0.71 |
| 4 | Not foster youth | 412,109 | 416,778 | 411,279 | 0.79 |
| 5 | Foster youth | 1,359 | 1,358 | 1,349 | 0.69 |
| 5 | Not foster youth | 417,054 | 421,154 | 416,134 | 0.79 |
| 6 | Foster youth | 1,329 | 1,327 | 1,318 | 0.73 |
| 6 | Not foster youth | 419,060 | 422,445 | 417,663 | 0.79 |
| 7 | Foster youth | 1,384 | 1,369 | 1,362 | 0.66 |
| 7 | Not foster youth | 422,928 | 425,542 | 420,574 | 0.78 |
| 8 | Foster youth | 1,441 | 1,428 | 1,409 | 0.69 |
| 8 | Not foster youth | 423,254 | 425,423 | 420,699 | 0.78 |
| 11 | Foster youth | 1,705 | 1,694 | 1,648 | 0.65 |
| 11 | Not foster youth | 433,584 | 433,009 | 428,374 | 0.74 |