

OHIO ACHIEVEMENT ASSESSMENT GRADE 3 READING TEST STATISTICAL SUMMARY

Spring 2015 Test Administration

These data describe the entire population of Ohio grade 3 public school students (including community schools) tested during the Spring 2015 administration.

Table 1 – Summary of Parameters from the Spring 2015 Administration of the Ohio Achievement Assessment for Grade 3 Reading.

| | |
|---------------------------------|---------|
| N-count | 125,927 |
| Max Raw Score | 49 |
| Raw Score Mean | 37.88 |
| Raw Score Standard Deviation | 8.76 |
| Raw Score SEM | 3.06 |
| Max Scaled Score | 496 |
| Scaled Score Mean | 421.57 |
| Scaled Score Standard Deviation | 29.88 |
| Scaled Score SEM | 10.44 |
| Reliability | 0.88 |

Table 2 – Cut Score Points for the Basic, Proficient, Accelerated, and Advanced Standards and Percentages of Students at each Performance Level.

| Standard | Raw Score | Scaled Score | Percent |
|-------------|-----------|--------------|---------|
| Limited | Below 25 | Below 385 | 9.7 |
| Basic | 25 | 385 | 11.4 |
| Proficient | 32 | 400 | 17.3 |
| Accelerated | 38 | 415 | 23.5 |
| Advanced | 43 | 432 | 38.2 |

Table 3 – Subscale (Raw Score) Bands for the Minimally Proficient Student in Grade 3, Spring 2015 Administration.

| | Content Standard | Below | At or Near Proficient | Above | Possible Score |
|------------------------|-------------------------|--------------|------------------------------|--------------|-----------------------|
| Grade 3 Reading | Vocabulary | 0 – 6 | 7 – 9 | 10 | 10 |
| | Reading Process | 0 – 10 | 11 – 13 | 14 – 16 | 16 |
| | Informational Text | 0 – 5 | 6 – 8 | 9 – 11 | 11 |
| | Literary Text | 0 – 7 | 8 – 10 | 11 – 12 | 12 |

Equating and Scaling: How Raw Scores Are Converted Into Scaled Scores

TEST FORM CONSTRUCTION

The test form for the Spring 2015 Ohio Grade 3 Reading Achievement Test was previously used for operational testing in Spring 2014.

POST-TEST EQUATING

Because the test form was used operationally in the spring of 2014, post-test equating was not done.

SCALING

Because the meaning of raw scores changes across test forms and test administrations, scaled scores are usually used in place of raw scores.

After administering the spring 2014 operational test, test items were calibrated and equated on the basis of the spring 2014 early return sample, and Rasch ability estimates were computed for each possible raw score. The Rasch ability estimates were then transformed to the Ohio Grade 3 Reading Achievement Test scale, on which the proficient standard is equal to 400. The raw score to scale score conversion tables for the Spring 2015 test administration are the same as for the Spring 2014 test administration.

OHIO ROUNDING RULE

When transforming raw scores to scaled scores, if the scaled score nearest to a performance standard cut score is below the cut score, then the scaled score is rounded up to equal the cut score. Otherwise, no special rounding is done. For example, if a raw score is associated with an observed scaled score of 398.94 and 398.94 is the closest observed scaled score to the proficient level cut score, then this value is rounded up to 400, corresponding to the proficient level performance standard. Conversely, if the closest scaled score value to the proficient level cut score is 401.12, no special rounding rules are invoked because the value is greater than the cut score.

Table 4 – Raw Score to Scaled Score Conversion Table
 (Cut scores indicated in **bold**.)

| Raw Score | Scaled Score | Raw Score | Scaled Score |
|-----------|--------------|-----------|--------------|
| 0 | 260 | 25 | 385 |
| 1 | 279 | 26 | 387 |
| 2 | 297 | 27 | 389 |
| 3 | 308 | 28 | 391 |
| 4 | 317 | 29 | 393 |
| 5 | 323 | 30 | 395 |
| 6 | 329 | 31 | 398 |
| 7 | 334 | 32 | 400 |
| 8 | 338 | 33 | 402 |
| 9 | 342 | 34 | 404 |
| 10 | 345 | 35 | 406 |
| 11 | 349 | 36 | 409 |
| 12 | 352 | 37 | 411 |
| 13 | 355 | 38 | 415 |
| 14 | 358 | 39 | 417 |
| 15 | 361 | 40 | 420 |
| 16 | 363 | 41 | 423 |
| 17 | 366 | 42 | 427 |
| 18 | 368 | 43 | 432 |
| 19 | 371 | 44 | 436 |
| 20 | 373 | 45 | 442 |
| 21 | 376 | 46 | 450 |
| 22 | 378 | 47 | 460 |
| 23 | 380 | 48 | 478 |
| 24 | 382 | 49 | 496 |