

Technical Report # 1407

Internal Consistency of the easyCBM© CCSS

Reading Measures

Grades 3-8

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Abstract

This technical report documents findings from a study of the internal consistency and split-half reliability of the easyCBM© CCSS Reading measures, grades 3-8. Data, drawn from an extant data set gathered in school year 2013-2014, include scores from over 150,000 students' fall and winter benchmark assessments. Findings suggest that the easyCBM© CCSS Reading measures are internally consistent, with a median Cronbach's alpha of .87, and a median split-half reliability of .76 (first half) and .82 (second half) across all 12 measures analyzed.

Internal Consistency of the easyCBM© CCSS Reading Measures, Grades 3-8

Reading measures specifically written to align with the Common Core State Standards' (CCSS) focus on literacy measures drawing from informational as well as literary text were added to the easyCBM© benchmarking and progress monitoring system in 2014, as part of a larger effort to expand the reading and mathematics assessments available on the system. Detailed information about the development process can be found in a series of technical reports written by Alonzo, Park, and Tindal (2012a-f). All easyCBM© CCSS reading items were written by teachers and district reading specialists, under the guidance of experienced assessment developers at the University of Oregon. All 13 test forms at each grade level were written to be of equivalent difficulty, with the difficulty increasing incrementally from one grade to the next. In the current study, we used extant data from the easyCBM© database to analyze the internal consistency and split-half reliability of the easyCBM© CCSS measures across all grades where they are offered.

Methods

Participants

The study was conducted using values from the fall and winter 2013-2014 easyCBM© CCSS reading benchmark assessments. The fall benchmark was taken by 17,914 grade 3 students; 16,217 grade 4 students; 16,645 grade 5 students; 9,256 grade 6 students; 8,498 grade 7 students; and 7,401 grade 8 students, for a total of 75,931 participants. The winter benchmark was taken by 19,406 grade 3 students; 17,824 grade 4 students; 16,825 grade 5 students; 10,102 grade 6 students; 8,825 grade 7 students; and 8,223 grade 8 students, for a total of 81,205 participants.

Across all grades, students of American Indian or Alaskan Native descent comprised 1-2% of the sample, and Asian students made up 1-2% of the sample. Black or African American students made up 11-14% of the sample in grades 3-5 and 2-3% of the sample in grades 6-8. Native Hawaiian or other Pacific Islander students made up less than 1% of the sample, while students identified as two or more races constituted 1-2% of the sample across all grades. Lastly, White students made up 33-53% of the sample, and those classified as *Unknown ethnicity* made up 27-47% of the sample across all grades. Across all grades, 7-15% of the students in the data set were missing racial information. For the grade 7 winter benchmark, information about race was missing for all students.

Similarly, students identified as Hispanic/Latino made up 7-15% of the sample and students identified as Not Hispanic/Latino made up 44-62% of the sample, varying by grade level, with this information not provided at all for some students at each grade level. The percentage of ELL students in the sample ranged from 15-32%. Students identified as having a learning disability constituted 22-36% of the sample. Males made up 49-54% of the sample. As with the information about race, gender information for the grade 7 winter measure was missing in the data set. Complete demographic information can be found in Tables 1-3.

Measures

The fall and winter benchmark versions of the easyCBM© CCSS reading measures for grades 3 through 8 were used for this study. (Due to the time of year in which the data were gathered, spring benchmark measures were not included in this study). Each measure consists of five testlets, with an item prompt (a short passage or image/graphic display of information), followed by five multiple-choice questions. Each question includes a correct answer and two plausible but incorrect distractor options. Each measure begins with two testlets based on short

literary text, followed by two testlets based on informational text, and finally a single testlet based on “read to perform a task”. Students score one point for every question they answer correctly, for a total of 25 points possible on each measure. The measures are designed for online administration in a group setting, where students read and respond to the questions on a computer or tablet device connected to the Internet. Responses are automatically recorded and scored by the computer system as students work their way through the assessments. PDFs of the measures are available for teachers to print for students who have difficulty accessing the material on a computer screen.

The development of the measures for each grade (3-8 individually) is described in detail in their respective technical reports Alonzo, Park, and Tindal (2012 a-f). As the technical reports document, the alternate forms of the measures within each grade (both benchmark and progress monitoring forms) were designed to be of equivalent difficulty, using a systematic and tightly-controlled development plan. Thus, although this study used data only from fall and winter benchmark assessments, the results should generalize to the other forms.

Data preparation and analysis

Prior to analysis, students who had not responded to any items on a particular reading measure were removed from the dataset. Next, the data were examined for scoring irregularities and any out-of-range values were removed.

The measures were analyzed for internal consistency using Cronbach’s Alpha and split-half reliability (first half/second half) as well as through computation of item level statistics of the top and bottom 27th percentiles. For the split-half reliability analyses, the measures were analyzed using the first half to the median compared to the second half.

Results

Descriptive statistics for easyCBM© CCSS reading measures can be found in Table 4. Table 5 and 6-17, respectively, document the internal consistency in the form of average inter-item reliability (Cronbach's Alpha), followed by split-half reliability and top / bottom reliability

Internal Consistency

CCSS easyCBM© reading

The Cronbach's Alpha ranged from .83 to .90, with a median of .87 for all measures in both the fall and winter. As expected, all fall and winter measures for each grade were within 0.03 of one another, with some falling within 0.00 to 0.02. See table 5 for complete inter-item reliability data.

The split-half reliability ranged from .73 to .81 for the first and .73 to .86 for the second half of the measures. The median for the first half was .76, and the median was .82 for the second half. The correlation between the two halves ranged from .59 to .74, with a median correlation of .67. See table 5 for complete split-half reliability data.

All items at all grade levels performed as expected with the higher percentile students getting the items correct more often than the lower percentile students. Complete item-level statistics can be found in tables 6-17. The results of these analyses suggest the best reliability is achieved by retaining all items.

Discussion

Results of this study provide evidence in support of the internal consistency of the easyCBM© CCSS Reading measures, across grades 3-8. Although only data from the Fall and Winter benchmark assessments were used in this study, the development process used for the measures, in which all alternate forms within a given grade level were designed concurrently and

to be of equivalent difficulty, and the consistent findings across all grades and forms analyzed suggests that the results may well generalize to the other easyCBM© CCSS Reading forms, including the Spring benchmark tests and all ten progress monitoring forms at each grade level. It is also worth noting that the consistency of the findings across the fall and winter benchmark test forms add to the evidence of form equivalence reported in earlier technical reports documenting the development process used in the creation of the measures.

Table 1

Demographic Data: easyCBM© Reading

| Grade/ Time | Race | | | | | | | |
|----------------|--|-------|---------------------------------|---|-------------------------|---------|-------|---------|
| | American Indian or Alaskan Native | Asian | Black or African American | Native Hawaiian or Other Pacific Islander | Two or more races | Unknown | White | Missing |
| 3/F | 413 | 348 | 2518 | 43 | 393 | 4819 | 8097 | 1283 |
| 3/W | 393 | 356 | 2736 | 46 | 437 | 5711 | 8291 | 1436 |
| 4/F | 382 | 283 | 1772 | 44 | 329 | 5008 | 7264 | 1135 |
| 4/W | 328 | 338 | 2022 | 59 | 356 | 5720 | 7704 | 1297 |
| 5/F | 343 | 349 | 1874 | 52 | 353 | 5139 | 7519 | 1016 |
| 5/W | 311 | 365 | 2125 | 67 | 351 | 5079 | 7294 | 1233 |
| 6/F | 198 | 141 | 292 | 31 | 163 | 2601 | 4912 | 918 |
| 6/W | 195 | 124 | 320 | 40 | 111 | 3608 | 4525 | 1179 |
| 7/F | 175 | 101 | 174 | 24 | 132 | 3049 | 3814 | 1029 |
| 7/W | . | . | . | . | . | . | . | . |
| 8/F | 149 | 83 | 233 | 19 | 109 | 2864 | 3017 | 927 |
| 8/W | 107 | 57 | 164 | 15 | 93 | 3903 | 2679 | 1205 |

Table 2

Demographic Data: easyCBM© Reading (con't)

| Grade/ Time | Ethnicity | | | | ELL | | |
|----------------|---------------------|----------------------------|---------|---------|------|-------|---------|
| | Hispanic/ Latino | Not Hispanic/ Latino | Unknown | Missing | Yes | No | Missing |
| 3/F | 2761 | 10054 | 3512 | 1587 | 5033 | 12220 | 661 |
| 3/W | 2906 | 10149 | 4486 | 1865 | 6114 | 12610 | 682 |
| 4/F | 1695 | 9452 | 3505 | 1565 | 3868 | 11771 | 610 |
| 4/W | 1851 | 9518 | 4634 | 1821 | 5161 | 11913 | 750 |
| 5/F | 1432 | 9782 | 3728 | 1703 | 3497 | 12526 | 622 |
| 5/W | 1646 | 9130 | 4154 | 1895 | 4256 | 11957 | 612 |
| 6/F | 1072 | 5756 | 1399 | 1029 | 1597 | 7262 | 397 |
| 6/W | 1119 | 4925 | 2548 | 1510 | 2977 | 6716 | 409 |
| 7/F | 885 | 4928 | 1602 | 1083 | 1349 | 6730 | 419 |
| 7/W | 780 | 4034 | 2671 | 1340 | 2550 | 5854 | 421 |
| 8/F | 680 | 4317 | 1485 | 919 | 1117 | 5887 | 397 |
| 8/W | 605 | 3603 | 2761 | 1254 | 2518 | 5330 | 375 |

Table 3

Demographic Data: easyCBM© Reading (con't)

| Grade/ Time | Disability | | | Gender | | | |
|----------------|------------|-------|---------|--------|--------|---------|---------|
| | Yes | No | Missing | Male | Female | Unknown | Missing |
| 3/F | 3906 | 13092 | 916 | 9659 | 7886 | 127 | 242 |
| 3/W | 4648 | 13821 | 937 | 10318 | 8562 | 228 | 298 |
| 4/F | 3714 | 11343 | 1160 | 8736 | 7050 | 127 | 314 |
| 4/W | 4677 | 11975 | 1172 | 9448 | 7757 | 218 | 401 |
| 5/F | 3833 | 11766 | 1046 | 8895 | 7280 | 117 | 353 |
| 5/W | 4161 | 11733 | 931 | 9062 | 7347 | 131 | 285 |
| 6/F | 2104 | 6473 | 679 | 4499 | 4494 | 59 | 204 |
| 6/W | 3264 | 6151 | 687 | 4931 | 4851 | 126 | 194 |
| 7/F | 1919 | 5750 | 829 | 4296 | 4056 | 66 | 80 |
| 7/W | 3062 | 4830 | 933 | . | . | . | . |
| 8/F | 1687 | 4991 | 723 | 3685 | 3561 | 60 | 95 |
| 8/W | 2982 | 4390 | 851 | 4103 | 3907 | 114 | 99 |

Table 4

Descriptive Statistics: easyCBM© Reading

| Grade/time | <i>N</i> | <i>M</i> | <i>SD</i> | Total possible |
|------------|----------|----------|-----------|----------------|
| 3/F | 17914 | 31.06 | 6.16 | 50 |
| 3/W | 19406 | 29.87 | 4.76 | 50 |
| 4/F | 16217 | 29.38 | 4.90 | 50 |
| 4/W | 17824 | 29.35 | 4.68 | 50 |
| 5/F | 16645 | 29.70 | 4.28 | 50 |
| 5/W | 16825 | 28.35 | 3.88 | 50 |
| 6/F | 9256 | 28.96 | 5.02 | 50 |
| 6/W | 10102 | 28.49 | 4.48 | 50 |
| 7/F | 8498 | 29.99 | 4.50 | 50 |
| 7/W | 8825 | 28.59 | 4.28 | 50 |
| 8/F | 7401 | 28.87 | 4.69 | 50 |
| 8/W | 8223 | 28.87 | 4.55 | 50 |

Table 5

Internal Reliability: easyCBM© Reading

| Grade/time | Cronbach's alpha | Split-half reliability | | |
|------------|---------------------|------------------------|----------|-------------|
| | | 1st half | 2nd half | Correlation |
| 3/F | .90 | .81 | .86 | .74 |
| 3/W | .87 | .73 | .82 | .69 |
| 4/F | .88 | .77 | .83 | .67 |
| 4/W | .87 | .74 | .81 | .67 |
| 5/F | .84 | .76 | .75 | .60 |
| 5/W | .85 | .81 | .73 | .59 |
| 6/F | .89 | .78 | .85 | .67 |
| 6/W | .87 | .74 | .85 | .65 |
| 7/F | .83 | .75 | .75 | .56 |
| 7/W | .86 | .73 | .80 | .65 |
| 8/F | .88 | .75 | .84 | .68 |
| 8/W | .88 | .76 | .81 | .66 |

Table 6

Item Statistics of Students for Grade 3 easyCBM© Reading Fall Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.67 | 0.47 | 4880 | 0.99 | 0.09 | 6002 |
| Item 2 | 0.44 | 0.50 | 4880 | 0.97 | 0.16 | 6002 |
| Item 3 | 0.48 | 0.50 | 4880 | 0.93 | 0.26 | 6002 |
| Item 4 | 0.34 | 0.48 | 4880 | 0.95 | 0.21 | 6002 |
| Item 5 | 0.37 | 0.48 | 4880 | 0.98 | 0.14 | 6002 |
| Item 6 | 0.47 | 0.50 | 4880 | 0.85 | 0.36 | 6002 |
| Item 7 | 0.36 | 0.48 | 4880 | 0.92 | 0.27 | 6002 |
| Item 8 | 0.35 | 0.48 | 4880 | 0.96 | 0.20 | 6002 |
| Item 9 | 0.50 | 0.50 | 4880 | 1.00 | 0.03 | 6002 |
| Item 10 | 0.47 | 0.50 | 4880 | 1.00 | 0.07 | 6002 |
| Item 11 | 0.46 | 0.50 | 4880 | 0.97 | 0.16 | 6002 |
| Item 12 | 0.34 | 0.47 | 4880 | 0.99 | 0.12 | 6002 |
| Item 13 | 0.35 | 0.48 | 4880 | 0.94 | 0.23 | 6002 |
| Item 14 | 0.38 | 0.48 | 4880 | 0.97 | 0.16 | 6002 |
| Item 15 | 0.48 | 0.50 | 4880 | 0.98 | 0.14 | 6002 |
| Item 16 | 0.27 | 0.44 | 4880 | 0.89 | 0.31 | 6002 |
| Item 17 | 0.43 | 0.50 | 4880 | 0.97 | 0.16 | 6002 |
| Item 18 | 0.32 | 0.46 | 4880 | 0.98 | 0.14 | 6002 |
| Item 19 | 0.38 | 0.48 | 4880 | 0.97 | 0.18 | 6002 |
| Item 20 | 0.40 | 0.49 | 4880 | 0.99 | 0.12 | 6002 |
| Item 21 | 0.51 | 0.50 | 4880 | 0.99 | 0.11 | 6002 |
| Item 22 | 0.41 | 0.49 | 4880 | 0.97 | 0.17 | 6002 |
| Item 23 | 0.33 | 0.47 | 4880 | 0.97 | 0.18 | 6002 |
| Item 24 | 0.35 | 0.48 | 4880 | 0.97 | 0.16 | 6002 |
| Item 25 | 0.40 | 0.49 | 4880 | 0.99 | 0.12 | 6002 |

Table 7

Item Statistics of Students for Grade 3 easyCBM© Reading Winter Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.70 | 0.46 | 6197 | 1.00 | 0.06 | 5297 |
| Item 2 | 0.64 | 0.48 | 6197 | 1.00 | 0.07 | 5297 |
| Item 3 | 0.39 | 0.49 | 6197 | 0.53 | 0.50 | 5297 |
| Item 4 | 0.64 | 0.48 | 6197 | 0.99 | 0.11 | 5297 |
| Item 5 | 0.56 | 0.50 | 6197 | 0.98 | 0.15 | 5297 |
| Item 6 | 0.59 | 0.49 | 6197 | 0.99 | 0.11 | 5297 |
| Item 7 | 0.60 | 0.49 | 6197 | 1.00 | 0.07 | 5297 |
| Item 8 | 0.25 | 0.44 | 6197 | 0.77 | 0.42 | 5297 |
| Item 9 | 0.41 | 0.49 | 6197 | 0.72 | 0.45 | 5297 |
| Item 10 | 0.63 | 0.48 | 6197 | 1.00 | 0.05 | 5297 |
| Item 11 | 0.68 | 0.46 | 6197 | 1.00 | 0.05 | 5297 |
| Item 12 | 0.66 | 0.47 | 6197 | 1.00 | 0.06 | 5297 |
| Item 13 | 0.45 | 0.50 | 6197 | 0.96 | 0.19 | 5297 |
| Item 14 | 0.46 | 0.50 | 6197 | 0.95 | 0.21 | 5297 |
| Item 15 | 0.72 | 0.45 | 6197 | 1.00 | 0.03 | 5297 |
| Item 16 | 0.67 | 0.47 | 6197 | 0.99 | 0.07 | 5297 |
| Item 17 | 0.50 | 0.50 | 6197 | 0.98 | 0.15 | 5297 |
| Item 18 | 0.69 | 0.46 | 6197 | 1.00 | 0.06 | 5297 |
| Item 19 | 0.49 | 0.50 | 6197 | 0.94 | 0.24 | 5297 |
| Item 20 | 0.31 | 0.46 | 6197 | 0.79 | 0.41 | 5297 |
| Item 21 | 0.66 | 0.47 | 6197 | 0.97 | 0.18 | 5297 |
| Item 22 | 0.67 | 0.47 | 6197 | 1.00 | 0.04 | 5297 |
| Item 23 | 0.64 | 0.48 | 6197 | 0.97 | 0.16 | 5297 |
| Item 24 | 0.65 | 0.48 | 6197 | 0.99 | 0.09 | 5297 |
| Item 25 | 0.76 | 0.43 | 6197 | 1.00 | 0.04 | 5297 |

Table 8

Item Statistics of Students for Grade 4 easyCBM© Reading Fall Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.55 | 0.50 | 4971 | 0.96 | 0.19 | 6535 |
| Item 2 | 0.73 | 0.44 | 4971 | 0.98 | 0.14 | 6535 |
| Item 3 | 0.51 | 0.50 | 4971 | 0.95 | 0.22 | 6535 |
| Item 4 | 0.51 | 0.50 | 4971 | 0.94 | 0.24 | 6535 |
| Item 5 | 0.44 | 0.50 | 4971 | 0.88 | 0.33 | 6535 |
| Item 6 | 0.79 | 0.41 | 4971 | 1.00 | 0.07 | 6535 |
| Item 7 | 0.73 | 0.44 | 4971 | 0.97 | 0.16 | 6535 |
| Item 8 | 0.70 | 0.46 | 4971 | 1.00 | 0.06 | 6535 |
| Item 9 | 0.73 | 0.44 | 4971 | 1.00 | 0.06 | 6535 |
| Item 10 | 0.29 | 0.45 | 4971 | 0.83 | 0.37 | 6535 |
| Item 11 | 0.66 | 0.47 | 4971 | 0.97 | 0.17 | 6535 |
| Item 12 | 0.55 | 0.50 | 4971 | 0.99 | 0.08 | 6535 |
| Item 13 | 0.39 | 0.49 | 4971 | 0.93 | 0.26 | 6535 |
| Item 14 | 0.62 | 0.49 | 4971 | 0.99 | 0.09 | 6535 |
| Item 15 | 0.68 | 0.47 | 4971 | 1.00 | 0.03 | 6535 |
| Item 16 | 0.48 | 0.50 | 4971 | 0.96 | 0.19 | 6535 |
| Item 17 | 0.33 | 0.47 | 4971 | 0.96 | 0.21 | 6535 |
| Item 18 | 0.42 | 0.49 | 4971 | 0.97 | 0.17 | 6535 |
| Item 19 | 0.46 | 0.50 | 4971 | 0.96 | 0.19 | 6535 |
| Item 20 | 0.31 | 0.46 | 4971 | 0.68 | 0.47 | 6535 |
| Item 21 | 0.77 | 0.42 | 4971 | 1.00 | 0.07 | 6535 |
| Item 22 | 0.71 | 0.45 | 4971 | 1.00 | 0.07 | 6535 |
| Item 23 | 0.80 | 0.40 | 4971 | 1.00 | 0.05 | 6535 |
| Item 24 | 0.63 | 0.48 | 4971 | 0.98 | 0.14 | 6535 |
| Item 25 | 0.54 | 0.50 | 4971 | 0.95 | 0.22 | 6535 |

Table 9

Item Statistics of Students for Grade 4 easyCBM© Reading Winter Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.83 | 0.37 | 5451 | 1.00 | 0.06 | 6456 |
| Item 2 | 0.78 | 0.41 | 5451 | 0.99 | 0.08 | 6456 |
| Item 3 | 0.59 | 0.49 | 5451 | 0.98 | 0.15 | 6456 |
| Item 4 | 0.69 | 0.46 | 5451 | 1.00 | 0.06 | 6456 |
| Item 5 | 0.29 | 0.45 | 5451 | 0.81 | 0.39 | 6456 |
| Item 6 | 0.55 | 0.50 | 5451 | 0.79 | 0.41 | 6456 |
| Item 7 | 0.79 | 0.41 | 5451 | 1.00 | 0.06 | 6456 |
| Item 8 | 0.32 | 0.47 | 5451 | 0.85 | 0.36 | 6456 |
| Item 9 | 0.66 | 0.47 | 5451 | 1.00 | 0.07 | 6456 |
| Item 10 | 0.79 | 0.41 | 5451 | 0.99 | 0.08 | 6456 |
| Item 11 | 0.51 | 0.50 | 5451 | 0.98 | 0.13 | 6456 |
| Item 12 | 0.76 | 0.43 | 5451 | 1.00 | 0.02 | 6456 |
| Item 13 | 0.55 | 0.50 | 5451 | 0.95 | 0.21 | 6456 |
| Item 14 | 0.54 | 0.50 | 5451 | 0.98 | 0.14 | 6456 |
| Item 15 | 0.46 | 0.50 | 5451 | 0.98 | 0.16 | 6456 |
| Item 16 | 0.73 | 0.44 | 5451 | 0.97 | 0.16 | 6456 |
| Item 17 | 0.58 | 0.49 | 5451 | 0.99 | 0.11 | 6456 |
| Item 18 | 0.54 | 0.50 | 5451 | 0.98 | 0.15 | 6456 |
| Item 19 | 0.48 | 0.50 | 5451 | 0.97 | 0.16 | 6456 |
| Item 20 | 0.27 | 0.44 | 5451 | 0.72 | 0.45 | 6456 |
| Item 21 | 0.74 | 0.44 | 5451 | 0.98 | 0.13 | 6456 |
| Item 22 | 0.48 | 0.50 | 5451 | 0.97 | 0.18 | 6456 |
| Item 23 | 0.78 | 0.42 | 5451 | 1.00 | 0.04 | 6456 |
| Item 24 | 0.51 | 0.50 | 5451 | 0.99 | 0.10 | 6456 |
| Item 25 | 0.58 | 0.49 | 5451 | 0.91 | 0.29 | 6456 |

Table 10

Item Statistics of Students for Grade 5 easyCBM© Reading Fall Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.67 | 0.47 | 5406 | 0.96 | 0.19 | 7232 |
| Item 2 | 0.72 | 0.45 | 5406 | 0.98 | 0.15 | 7232 |
| Item 3 | 0.79 | 0.41 | 5406 | 0.99 | 0.09 | 7232 |
| Item 4 | 0.82 | 0.38 | 5406 | 1.00 | 0.03 | 7232 |
| Item 5 | 0.54 | 0.50 | 5406 | 0.95 | 0.23 | 7232 |
| Item 6 | 0.59 | 0.49 | 5406 | 0.96 | 0.20 | 7232 |
| Item 7 | 0.58 | 0.49 | 5406 | 0.98 | 0.15 | 7232 |
| Item 8 | 0.57 | 0.50 | 5406 | 0.98 | 0.14 | 7232 |
| Item 9 | 0.81 | 0.40 | 5406 | 1.00 | 0.04 | 7232 |
| Item 10 | 0.72 | 0.45 | 5406 | 0.95 | 0.22 | 7232 |
| Item 11 | 0.69 | 0.46 | 5406 | 0.98 | 0.13 | 7232 |
| Item 12 | 0.40 | 0.49 | 5406 | 0.67 | 0.47 | 7232 |
| Item 13 | 0.58 | 0.49 | 5406 | 0.99 | 0.11 | 7232 |
| Item 14 | 0.66 | 0.47 | 5406 | 0.96 | 0.19 | 7232 |
| Item 15 | 0.17 | 0.38 | 5406 | 0.25 | 0.43 | 7232 |
| Item 16 | 0.60 | 0.49 | 5406 | 0.97 | 0.16 | 7232 |
| Item 17 | 0.61 | 0.49 | 5406 | 0.88 | 0.32 | 7232 |
| Item 18 | 0.65 | 0.48 | 5406 | 0.98 | 0.14 | 7232 |
| Item 19 | 0.26 | 0.44 | 5406 | 0.71 | 0.45 | 7232 |
| Item 20 | 0.42 | 0.49 | 5406 | 0.87 | 0.33 | 7232 |
| Item 21 | 0.87 | 0.34 | 5406 | 1.00 | 0.06 | 7232 |
| Item 22 | 0.66 | 0.47 | 5406 | 0.99 | 0.11 | 7232 |
| Item 23 | 0.78 | 0.42 | 5406 | 0.99 | 0.09 | 7232 |
| Item 24 | 0.58 | 0.49 | 5406 | 0.95 | 0.21 | 7232 |
| Item 25 | 0.58 | 0.49 | 5406 | 0.97 | 0.16 | 7232 |

Table 11

Item Statistics of Students for Grade 5 easyCBM© Reading Winter Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.92 | 0.27 | 6297 | 1.00 | 0.01 | 4612 |
| Item 2 | 0.69 | 0.46 | 6297 | 0.98 | 0.13 | 4612 |
| Item 3 | 0.86 | 0.35 | 6297 | 1.00 | 0.06 | 4612 |
| Item 4 | 0.82 | 0.39 | 6297 | 1.00 | 0.05 | 4612 |
| Item 5 | 0.84 | 0.37 | 6297 | 1.00 | 0.03 | 4612 |
| Item 6 | 0.77 | 0.42 | 6297 | 0.99 | 0.10 | 4612 |
| Item 7 | 0.59 | 0.49 | 6297 | 0.99 | 0.10 | 4612 |
| Item 8 | 0.80 | 0.40 | 6297 | 1.00 | 0.04 | 4612 |
| Item 9 | 0.58 | 0.49 | 6297 | 0.98 | 0.14 | 4612 |
| Item 10 | 0.81 | 0.39 | 6297 | 1.00 | 0.03 | 4612 |
| Item 11 | 0.86 | 0.35 | 6297 | 1.00 | 0.03 | 4612 |
| Item 12 | 0.89 | 0.31 | 6297 | 1.00 | 0.04 | 4612 |
| Item 13 | 0.73 | 0.44 | 6297 | 1.00 | 0.06 | 4612 |
| Item 14 | 0.73 | 0.44 | 6297 | 0.99 | 0.09 | 4612 |
| Item 15 | 0.51 | 0.50 | 6297 | 0.94 | 0.24 | 4612 |
| Item 16 | 0.22 | 0.41 | 6297 | 0.81 | 0.40 | 4612 |
| Item 17 | 0.50 | 0.50 | 6297 | 0.98 | 0.15 | 4612 |
| Item 18 | 0.54 | 0.50 | 6297 | 0.99 | 0.10 | 4612 |
| Item 19 | 0.58 | 0.49 | 6297 | 0.99 | 0.11 | 4612 |
| Item 20 | 0.40 | 0.49 | 6297 | 0.74 | 0.44 | 4612 |
| Item 21 | 0.88 | 0.32 | 6297 | 1.00 | 0.02 | 4612 |
| Item 22 | 0.81 | 0.40 | 6297 | 1.00 | 0.05 | 4612 |
| Item 23 | 0.85 | 0.35 | 6297 | 1.00 | 0.05 | 4612 |
| Item 24 | 0.82 | 0.38 | 6297 | 1.00 | 0.04 | 4612 |
| Item 25 | 0.90 | 0.30 | 6297 | 1.00 | 0.04 | 4612 |

Table 12

Item Statistics of Students for Grade 6 easyCBM© Reading Fall Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.87 | 0.34 | 2791 | 0.99 | 0.07 | 3432 |
| Item 2 | 0.42 | 0.49 | 2791 | 0.80 | 0.40 | 3432 |
| Item 3 | 0.35 | 0.48 | 2791 | 0.88 | 0.32 | 3432 |
| Item 4 | 0.77 | 0.42 | 2791 | 0.99 | 0.09 | 3432 |
| Item 5 | 0.64 | 0.48 | 2791 | 0.99 | 0.10 | 3432 |
| Item 6 | 0.88 | 0.33 | 2791 | 1.00 | 0.02 | 3432 |
| Item 7 | 0.77 | 0.42 | 2791 | 1.00 | 0.04 | 3432 |
| Item 8 | 0.78 | 0.41 | 2791 | 1.00 | 0.06 | 3432 |
| Item 9 | 0.58 | 0.49 | 2791 | 0.96 | 0.20 | 3432 |
| Item 10 | 0.79 | 0.41 | 2791 | 1.00 | 0.07 | 3432 |
| Item 11 | 0.70 | 0.46 | 2791 | 1.00 | 0.06 | 3432 |
| Item 12 | 0.76 | 0.43 | 2791 | 1.00 | 0.03 | 3432 |
| Item 13 | 0.41 | 0.49 | 2791 | 0.96 | 0.19 | 3432 |
| Item 14 | 0.72 | 0.45 | 2791 | 1.00 | 0.06 | 3432 |
| Item 15 | 0.72 | 0.45 | 2791 | 1.00 | 0.07 | 3432 |
| Item 16 | 0.56 | 0.50 | 2791 | 1.00 | 0.04 | 3432 |
| Item 17 | 0.47 | 0.50 | 2791 | 0.99 | 0.10 | 3432 |
| Item 18 | 0.48 | 0.50 | 2791 | 0.99 | 0.07 | 3432 |
| Item 19 | 0.25 | 0.44 | 2791 | 0.86 | 0.34 | 3432 |
| Item 20 | 0.46 | 0.50 | 2791 | 0.99 | 0.10 | 3432 |
| Item 21 | 0.43 | 0.50 | 2791 | 0.91 | 0.28 | 3432 |
| Item 22 | 0.22 | 0.41 | 2791 | 0.55 | 0.50 | 3432 |
| Item 23 | 0.44 | 0.50 | 2791 | 0.95 | 0.23 | 3432 |
| Item 24 | 0.56 | 0.50 | 2791 | 0.97 | 0.16 | 3432 |
| Item 25 | 0.64 | 0.48 | 2791 | 0.97 | 0.16 | 3432 |

Table 13

Item Statistics of Students for Grade 6 easyCBM© Reading Winter Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.56 | 0.50 | 3228 | 0.97 | 0.16 | 4178 |
| Item 2 | 0.30 | 0.46 | 3228 | 0.74 | 0.44 | 4178 |
| Item 3 | 0.48 | 0.50 | 3228 | 0.96 | 0.21 | 4178 |
| Item 4 | 0.58 | 0.49 | 3228 | 0.96 | 0.21 | 4178 |
| Item 5 | 0.38 | 0.49 | 3228 | 0.75 | 0.43 | 4178 |
| Item 6 | 0.51 | 0.50 | 3228 | 0.97 | 0.17 | 4178 |
| Item 7 | 0.76 | 0.43 | 3228 | 1.00 | 0.06 | 4178 |
| Item 8 | 0.26 | 0.44 | 3228 | 0.73 | 0.45 | 4178 |
| Item 9 | 0.81 | 0.39 | 3228 | 0.99 | 0.09 | 4178 |
| Item 10 | 0.66 | 0.47 | 3228 | 0.99 | 0.12 | 4178 |
| Item 11 | 0.78 | 0.41 | 3228 | 1.00 | 0.04 | 4178 |
| Item 12 | 0.66 | 0.47 | 3228 | 0.99 | 0.10 | 4178 |
| Item 13 | 0.86 | 0.35 | 3228 | 1.00 | 0.02 | 4178 |
| Item 14 | 0.68 | 0.47 | 3228 | 0.99 | 0.10 | 4178 |
| Item 15 | 0.75 | 0.43 | 3228 | 0.99 | 0.08 | 4178 |
| Item 16 | 0.60 | 0.49 | 3228 | 0.96 | 0.20 | 4178 |
| Item 17 | 0.75 | 0.43 | 3228 | 1.00 | 0.04 | 4178 |
| Item 18 | 0.74 | 0.44 | 3228 | 0.99 | 0.10 | 4178 |
| Item 19 | 0.63 | 0.48 | 3228 | 0.99 | 0.07 | 4178 |
| Item 20 | 0.51 | 0.50 | 3228 | 0.94 | 0.23 | 4178 |
| Item 21 | 0.58 | 0.49 | 3228 | 0.88 | 0.33 | 4178 |
| Item 22 | 0.85 | 0.36 | 3228 | 1.00 | 0.05 | 4178 |
| Item 23 | 0.84 | 0.37 | 3228 | 1.00 | 0.07 | 4178 |
| Item 24 | 0.80 | 0.40 | 3228 | 0.99 | 0.08 | 4178 |
| Item 25 | 0.84 | 0.36 | 3228 | 1.00 | 0.06 | 4178 |

Table 14

Item Statistics of Students for Grade 7 easyCBM© Reading Fall Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.68 | 0.47 | 2646 | 0.99 | 0.11 | 3177 |
| Item 2 | 0.73 | 0.45 | 2646 | 0.99 | 0.11 | 3177 |
| Item 3 | 0.55 | 0.50 | 2646 | 0.90 | 0.29 | 3177 |
| Item 4 | 0.53 | 0.50 | 2646 | 0.98 | 0.12 | 3177 |
| Item 5 | 0.55 | 0.50 | 2646 | 0.96 | 0.19 | 3177 |
| Item 6 | 0.28 | 0.45 | 2646 | 0.63 | 0.48 | 3177 |
| Item 7 | 0.80 | 0.40 | 2646 | 1.00 | 0.06 | 3177 |
| Item 8 | 0.72 | 0.45 | 2646 | 1.00 | 0.05 | 3177 |
| Item 9 | 0.47 | 0.50 | 2646 | 0.90 | 0.30 | 3177 |
| Item 10 | 0.72 | 0.45 | 2646 | 0.99 | 0.07 | 3177 |
| Item 11 | 0.76 | 0.42 | 2646 | 1.00 | 0.05 | 3177 |
| Item 12 | 0.54 | 0.50 | 2646 | 0.96 | 0.19 | 3177 |
| Item 13 | 0.45 | 0.50 | 2646 | 0.96 | 0.19 | 3177 |
| Item 14 | 0.58 | 0.49 | 2646 | 0.96 | 0.19 | 3177 |
| Item 15 | 0.65 | 0.48 | 2646 | 0.93 | 0.26 | 3177 |
| Item 16 | 0.25 | 0.43 | 2646 | 0.71 | 0.45 | 3177 |
| Item 17 | 0.51 | 0.50 | 2646 | 0.91 | 0.28 | 3177 |
| Item 18 | 0.36 | 0.48 | 2646 | 0.85 | 0.36 | 3177 |
| Item 19 | 0.46 | 0.50 | 2646 | 0.89 | 0.31 | 3177 |
| Item 20 | 0.32 | 0.46 | 2646 | 0.74 | 0.44 | 3177 |
| Item 21 | 0.84 | 0.37 | 2646 | 1.00 | 0.04 | 3177 |
| Item 22 | 0.55 | 0.50 | 2646 | 0.77 | 0.42 | 3177 |
| Item 23 | 0.77 | 0.42 | 2646 | 0.99 | 0.10 | 3177 |
| Item 24 | 0.85 | 0.35 | 2646 | 0.99 | 0.09 | 3177 |
| Item 25 | 0.57 | 0.50 | 2646 | 0.96 | 0.19 | 3177 |

Table 15

Item Statistics of Students for Grade 7 easyCBM© Reading Winter Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.33 | 0.47 | 2635 | 0.75 | 0.44 | 3560 |
| Item 2 | 0.81 | 0.39 | 2635 | 0.99 | 0.09 | 3560 |
| Item 3 | 0.92 | 0.27 | 2635 | 1.00 | 0.02 | 3560 |
| Item 4 | 0.70 | 0.46 | 2635 | 0.94 | 0.24 | 3560 |
| Item 5 | 0.81 | 0.39 | 2635 | 0.99 | 0.07 | 3560 |
| Item 6 | 0.33 | 0.47 | 2635 | 0.75 | 0.43 | 3560 |
| Item 7 | 0.66 | 0.47 | 2635 | 0.99 | 0.08 | 3560 |
| Item 8 | 0.77 | 0.42 | 2635 | 1.00 | 0.05 | 3560 |
| Item 9 | 0.42 | 0.49 | 2635 | 0.90 | 0.30 | 3560 |
| Item 10 | 0.82 | 0.38 | 2635 | 1.00 | 0.03 | 3560 |
| Item 11 | 0.76 | 0.43 | 2635 | 1.00 | 0.05 | 3560 |
| Item 12 | 0.65 | 0.48 | 2635 | 0.99 | 0.09 | 3560 |
| Item 13 | 0.72 | 0.45 | 2635 | 1.00 | 0.06 | 3560 |
| Item 14 | 0.71 | 0.45 | 2635 | 0.99 | 0.11 | 3560 |
| Item 15 | 0.43 | 0.50 | 2635 | 0.81 | 0.39 | 3560 |
| Item 16 | 0.56 | 0.50 | 2635 | 0.95 | 0.21 | 3560 |
| Item 17 | 0.81 | 0.39 | 2635 | -- | -- | -- |
| Item 18 | 0.51 | 0.50 | 2635 | 0.94 | 0.24 | 3560 |
| Item 19 | 0.60 | 0.49 | 2635 | 0.91 | 0.28 | 3560 |
| Item 20 | 0.70 | 0.46 | 2635 | 0.99 | 0.08 | 3560 |
| Item 21 | 0.66 | 0.48 | 2635 | 0.97 | 0.17 | 3560 |
| Item 22 | 0.64 | 0.48 | 2635 | 0.98 | 0.14 | 3560 |
| Item 23 | 0.79 | 0.41 | 2635 | 1.00 | 0.04 | 3560 |
| Item 24 | 0.38 | 0.49 | 2635 | 0.86 | 0.35 | 3560 |
| Item 25 | 0.71 | 0.45 | 2635 | 0.99 | 0.09 | 3560 |

Note. Item 17 of the winter Grade 7 measure has a variance of zero indicating all participants answered the question correctly.

Table 16

Item Statistics of Students for Grade 8 easyCBM© Reading Fall Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.80 | 0.40 | 2491 | 1.00 | 0.07 | 3058 |
| Item 2 | 0.86 | 0.35 | 2491 | 1.00 | 0.06 | 3058 |
| Item 3 | 0.83 | 0.37 | 2491 | 0.98 | 0.13 | 3058 |
| Item 4 | 0.67 | 0.47 | 2491 | 0.98 | 0.13 | 3058 |
| Item 5 | 0.82 | 0.38 | 2491 | 1.00 | 0.04 | 3058 |
| Item 6 | 0.75 | 0.43 | 2491 | 0.99 | 0.10 | 3058 |
| Item 7 | 0.67 | 0.47 | 2491 | 0.89 | 0.31 | 3058 |
| Item 8 | 0.55 | 0.50 | 2491 | 0.94 | 0.24 | 3058 |
| Item 9 | 0.73 | 0.45 | 2491 | 0.98 | 0.15 | 3058 |
| Item 10 | 0.25 | 0.43 | 2491 | 0.72 | 0.45 | 3058 |
| Item 11 | 0.30 | 0.46 | 2491 | 0.82 | 0.39 | 3058 |
| Item 12 | 0.50 | 0.50 | 2491 | 0.97 | 0.17 | 3058 |
| Item 13 | 0.46 | 0.50 | 2491 | 0.95 | 0.21 | 3058 |
| Item 14 | 0.44 | 0.50 | 2491 | 0.93 | 0.26 | 3058 |
| Item 15 | 0.50 | 0.50 | 2491 | 0.85 | 0.36 | 3058 |
| Item 16 | 0.71 | 0.45 | 2491 | 0.98 | 0.15 | 3058 |
| Item 17 | 0.76 | 0.42 | 2491 | 1.00 | 0.04 | 3058 |
| Item 18 | 0.72 | 0.45 | 2491 | 1.00 | 0.07 | 3058 |
| Item 19 | 0.74 | 0.44 | 2491 | 1.00 | 0.06 | 3058 |
| Item 20 | 0.66 | 0.47 | 2491 | 0.99 | 0.12 | 3058 |
| Item 21 | 0.74 | 0.44 | 2491 | 0.99 | 0.07 | 3058 |
| Item 22 | 0.73 | 0.45 | 2491 | 0.99 | 0.09 | 3058 |
| Item 23 | 0.59 | 0.49 | 2491 | 0.98 | 0.14 | 3058 |
| Item 24 | 0.69 | 0.46 | 2491 | 0.99 | 0.09 | 3058 |
| Item 25 | 0.37 | 0.48 | 2491 | 0.88 | 0.33 | 3058 |

Table 17

Item Statistics of Students for Grade 8 easyCBM© Reading Winter Benchmark

| | 27th percentile and below | | | 73rd percentile and above | | |
|---------|---------------------------|-----------|----------|---------------------------|-----------|----------|
| | <i>M</i> | <i>SD</i> | <i>N</i> | <i>M</i> | <i>SD</i> | <i>N</i> |
| Item 1 | 0.77 | 0.42 | 2264 | 1.00 | 0.06 | 3614 |
| Item 2 | 0.87 | 0.34 | 2264 | 1.00 | 0.04 | 3614 |
| Item 3 | 0.66 | 0.47 | 2264 | 0.91 | 0.29 | 3614 |
| Item 4 | 0.84 | 0.37 | 2264 | 1.00 | 0.05 | 3614 |
| Item 5 | 0.81 | 0.39 | 2264 | 0.99 | 0.12 | 3614 |
| Item 6 | 0.71 | 0.46 | 2264 | 0.99 | 0.11 | 3614 |
| Item 7 | 0.52 | 0.50 | 2264 | 0.92 | 0.27 | 3614 |
| Item 8 | 0.49 | 0.50 | 2264 | 0.96 | 0.18 | 3614 |
| Item 9 | 0.50 | 0.50 | 2264 | 0.97 | 0.18 | 3614 |
| Item 10 | 0.63 | 0.48 | 2264 | 0.99 | 0.10 | 3614 |
| Item 11 | 0.81 | 0.39 | 2264 | 1.00 | 0.06 | 3614 |
| Item 12 | 0.40 | 0.49 | 2264 | 0.93 | 0.25 | 3614 |
| Item 13 | 0.63 | 0.48 | 2264 | 0.98 | 0.12 | 3614 |
| Item 14 | 0.51 | 0.50 | 2264 | 0.98 | 0.12 | 3614 |
| Item 15 | 0.34 | 0.48 | 2264 | 0.57 | 0.50 | 3614 |
| Item 16 | 0.31 | 0.46 | 2264 | 0.98 | 0.14 | 3614 |
| Item 17 | 0.45 | 0.50 | 2264 | 0.99 | 0.09 | 3614 |
| Item 18 | 0.30 | 0.46 | 2264 | 0.89 | 0.31 | 3614 |
| Item 19 | 0.38 | 0.48 | 2264 | 0.85 | 0.35 | 3614 |
| Item 20 | 0.33 | 0.47 | 2264 | 0.97 | 0.18 | 3614 |
| Item 21 | 0.82 | 0.39 | 2264 | 0.99 | 0.08 | 3614 |
| Item 22 | 0.79 | 0.41 | 2264 | 1.00 | 0.04 | 3614 |
| Item 23 | 0.67 | 0.47 | 2264 | 0.97 | 0.16 | 3614 |
| Item 24 | 0.75 | 0.43 | 2264 | 1.00 | 0.05 | 3614 |
| Item 25 | 0.63 | 0.48 | 2264 | 0.97 | 0.17 | 3614 |

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