

# FastBridge Learning

## Formative Assessment System for Teachers™ (FAST™)

**Benchmarks and Norms  
Version 2.3, 2015–16**

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Research to Results™



**Formative Assessment System for Teachers™  
(FAST™): Benchmarks and Norms for 2015-16**

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## Forward

### Our Story

Over 15 years, our research team received competitive funding from the US Department of Education to build knowledge and improve educational assessments. The Formative Assessment System for Teachers™ (FAST™) is how we disseminate that work. It was developed to reduce the gap between research at universities and results in the classroom, which can take 10 to 30 years in a typical cycle. FAST™ has reduced that to weeks or months. We innovate today and implement tomorrow.

In 2010, Dr. Borbora (Co-Founder) and I (Founder) conceptualized and created FAST™ as a cloud-based system at the University of Minnesota. Our goal was to use research and technology to make it easier for teachers to collect and use data to improve student outcomes. We initially tried to create and distribute for free. That model was unsustainable. We had no resources to achieve our standard of excellence. The school leadership and teachers that were our partners preferred an excellent low cost system over a good free system. With the University, we made this transition in early 2012. The demand for FAST™ was tremendous and overwhelming. The demand quickly outpaced what we could support at the University. So, FastBridge Learning, LLC was launched in the spring of 2015 to distribute and support FAST™.

FastBridge Learning, LLC is a partnership between the University of Minnesota, “Theodore J. Christ and Colleagues” (TJCC), and the FAST™ team. In 2014–15, FAST™ was used in more than 30 states, which includes a statewide adoption in Iowa (92% of schools). FAST™ users exceeded 5 million administrations in 2014–15. The feedback has been tremendous. In partnership, we continue to strive for our vision: Research to Results™.

### Our Mission

The University of Minnesota and TJCC continue with their mission to innovate with research and development. FastBridge Learning continues to translate those innovations into practice for use by teachers. We aspire to provide a seamless and fully integrated solution for PreK–12 teaching, learning, and assessment. We are not just about assessment. We are about learning and optimization of teaching, parenting, and being. FAST™ was the centerpiece of FastBridge Learning in 2014–15. It will soon be supplemented with teaching and learning tools (e.g., materials, guides, reports, and automated software-based personalized instruction).

Like-minded researchers and trainers are encouraged to join our cause ([ted@fastbridge.org](mailto:ted@fastbridge.org), [www.fastbridge.org](http://www.fastbridge.org)). Educators are invited to join FastBridge Learning and challenge us to innovate and deliver solutions for the most challenging teaching and learning problems.

### Our Values

We are values driven. We strive towards our values. Those are: **Tell the Truth**, **Respect the Teacher**, and **Deliver High-Value Solutions**. These values inform our work, and we measure our successes against them. We invite others to hold us accountable.

### **We Tell the Truth**

Perhaps more than at any time in the past, educators are bombarded with claims of research, evidence, data, statistics, and assessments. These words relate to very important and lofty subject matter that is undermined when they are misused or abused for marketing, sales, or self-promotion. We strive to know better and do better. We strive to tell the truth. And, the truth is that all research has its limitations, as do the various types of assessment and data. That is true regardless of any misleading claims. So, we acknowledge the limitations of the tools we deliver, and we do not exaggerate our claims. Instead, we deliver multiple types of assessment in one suite and provide guidance so users **use the right tool for the right purpose**. It is an honest and better solution for teachers.

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### **We Respect the Teacher**

At the beginning, FAST™ (Formative Assessment System for Teachers) was named to make the value of teachers explicit. They are the primary intended user, so we include them and value their opinions that guide our research, development, and refinement. We are in service to the professional educator. We aspire to make their work easier and more effective.

I (Dr. Christ) was a paraprofessional, residential counselor, and special education teacher. I earned my MA and PhD degrees in school psychology in pursuit to become a better teacher of students who are at risk. I always intended to return to the classroom, but was drawn into a research career, which gives me great joy. Our team respects, responds and solicits input from teachers who work to solve difficult problems with limited resources. We try to understand and meet their needs—and yours—with quality research, engineering, training, and support.

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### **We Deliver High-Value Solutions**

We strive to provide systems and services that are effective, efficient, elegant, and economical.

- An **effective** solution improves child outcomes.
- An **efficient** solution saves time and resources.
- An **elegant** solution is pleasing and easy to use.
- An **economical** solution is sustainable for us and our users.

### **Final Note from Dr. Christ**

Thank you for considering our work. It is a compilation of efforts by many graduate and undergraduate students, researchers, teachers, principals, and state agencies. This would not exist without them. I am very thankful for their contributions. I hope it confers great benefit to the professional educator and the children they serve.

Education has the potential to be the great equalizer and reduce the gaps in opportunity and achievement; however, we will only realize that potential if education is of high and equitable quality. I hope we help in the pursuit of that.





Sincerely,

Ted

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## Problems in Education

A problem (P) is defined as the discrepancy between what is expected (E) and what occurs (O), and thus can be defined as  $P = E - O$  (Deno, 2005). Educators often have internal expectations, which are not necessarily objective, consistent, or explicit. It benefits the educational system to have high-quality evidence-based standards, which is done with well-established *standard setting* procedures. In the case of FAST™, these standards are combined with objective, consistent, and explicit evidence-based measures of student achievement. The measure and standards guide the interpretation and use of student performance with regard to each student's present level of educational performance (PLEP), needs, response to instruction/intervention (RTI), and the effectiveness of educational programs.

## Scores

Below are brief descriptions of the scores for which norms and benchmarks are presented in this manual.

### Reading

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#### earlyReading

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##### Raw Scores

Each earlyReading subtest produces a raw score. The primary score for each subtest is the number of items correct and/or the number of items correct per minute. These raw scores are used to generate percentile ranks.

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##### Composite Scores

The best estimate of students' early literacy skills is the earlyReading composite score. The composite score consists of multiple subtest scores administered during a universal screening period. The earlyReading composite scores were developed as optimal predictors of spring broad reading achievement in kindergarten and first grade. A selected set of individual subtest scores were weighted to optimize the predictive relationship between earlyReading and broad reading achievement scores (See Table 1). The weighting is specific to each season. It is important to emphasize that the weighting is influenced by the possible score range, as well as the value of the skill. For example, letter sounds is an important skill with a score range of 0 to 60 or more sounds per minute. This represents a broad range of possible scores with benchmark scores that are fairly high (e.g., benchmarks for fall, winter, and spring might be 10, 28, and 42, respectively). In contrast, Concepts of Print has a score range from 0 to 12 and benchmarks are relatively low in value (e.g., benchmarks for fall and winter might be 8 and 11, respectively). As a result of both the score range *and* the relative value of Concepts of Print to overall early reading performance, the subtest score is more heavily weighted in the composite score. The weightings are depicted in Table 1. The high (H), moderate (M), and low (L) weights indicate the relative influence of a one point change in the subtest on the composite score. A one point change for an H weighting is highly influential. A one point change in an L weighting has low influence.

The composite scores should be interpreted in conjunction with specific subtest scores. A variety of patterns might be observed. It is most common for students to perform consistently above or below benchmark on the composite and subtests; however, it is also possible to observe that a particular student is above benchmark on one or more measures, but below the composite benchmark. It is also possible for a student to be below

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benchmark on one or more subtests, but above the composite benchmark. Although atypical, this phenomenon is not problematic. The recommendation is to combine the use of composite and subtest scores in order to optimize the decision-making process. Overall, composite scores are the best predictors of future reading success.

**Table 1 Weighting Scheme for earlyReading Composite Scores**

earlyReading Subtests	Kindergarten			First Grade		
	F	W	S	F	W	S
Concepts of Print	H					
Onset Sounds	M	H				
Letter Names	L					
Letter Sounds	L	L	L			
Word Segmenting		L	M	L	L	L
Nonsense/Decodable/Syllable Words		M	M	H	H	H
Sight Words			L	M	M	M
Sentence Reading				L		
CBMreading					L	L
Broad Score						

*Note. The weighting of subtests for the earlyReading Composite is represented above.*

*H – high weighting, M – moderate weighting, L – low weighting.*

### CBMreading

Interpreting CBMreading scores involves a basic understanding of the various scores provided in FAST™:

#### Total Words Read

Total Words Read refers to the total number of words read by the student, including correct and incorrect responses.

#### Number of Errors

This is the total number of errors the student made during the one minute administration time.

#### Words Read Correct per Minute (WRC/min)

This is the number of Words Read Correct per minute. This is computed by taking the total number of words read and subtracting the number of errors the student made.

### aReading

Interpreting aReading scores involves a basic understanding of the various scores provided in FAST™.

#### Scaled Scores

aReading scaled scores have an average of 500 and standard deviation of 50 across the range of Kindergarten to Twelfth grade. Scores should be interpreted with reference to the norms and benchmarks. In addition, aReading has descriptions regarding the interpretation of a student's scaled score with respect to mastered, developing, and future skill development. These are intended to help teachers better understand the developmental progression and student needs. The FAST™ system generates individual reports to describe the reading skills that the student has mastered, is developing, and will develop based on their scaled score.

*Figure 1* Example of a student's aReading report with interpretations of the scaled score on the following page shows an example of a student's score report and her mastered, developing, and future skills for Concepts of Print.

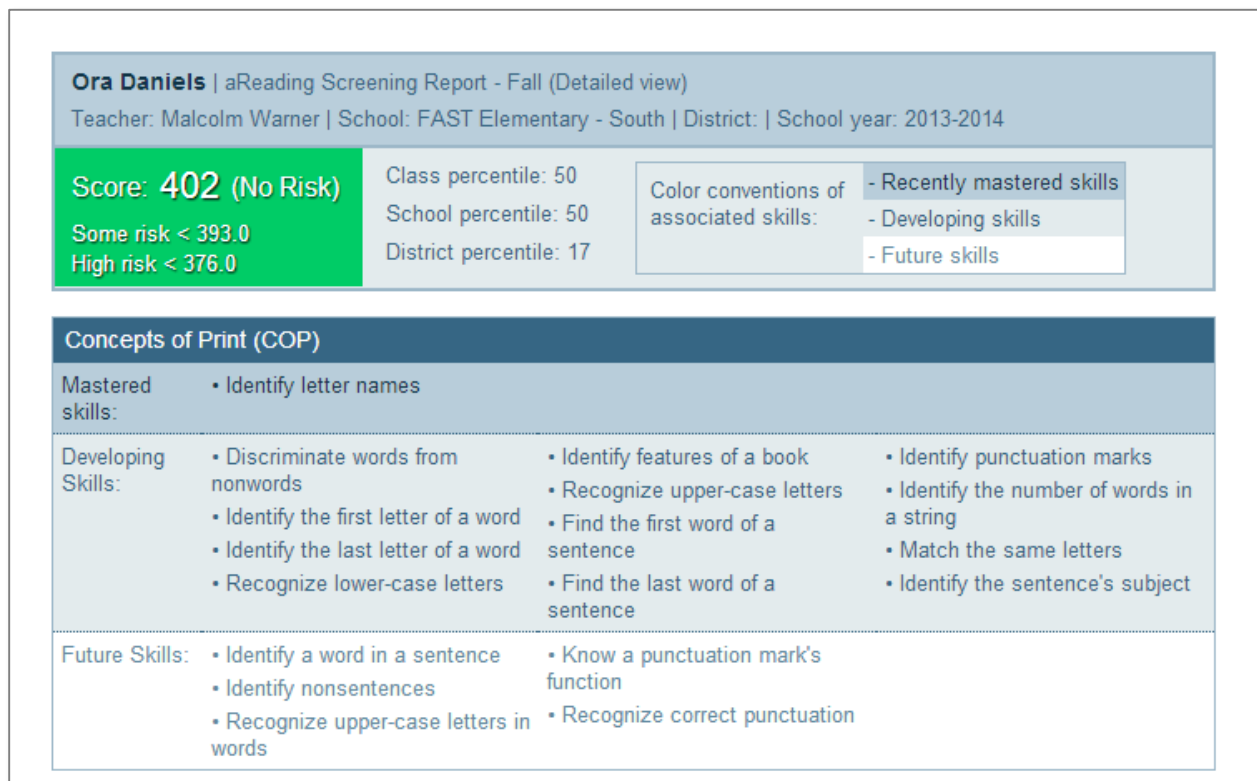


Figure 1 Example of a student's aReading report with interpretations of the scaled score.

## Mathematics

### earlyMath

Each earlyMath subtest produces a raw score. The primary score for each subtest is the number of items correct and/or the number of items correct per minute. These raw scores are used to generate percentile ranks.

### Composite Scores

The best estimate of students' early mathematics skills is the earlyMath composite score. The composite score consists of multiple subtest scores administered during a universal screening period. The earlyMath composite scores were developed as optimal predictors of spring broad reading achievement in Kindergarten and First Grade.

A select set of individual subtest scores were weighted to optimize the predictive relationship between earlyMath and broad math achievement scores (See Table 2 below). Subtests were selected to assess skill in all three domains of early numeracy (i.e., Number, Relations, and Operations) in each screening period. Consistent with theory and evidence, the subtests were selected to emphasize the Number domain in Kindergarten and Operations in First Grade. The individual subtest scores were weighted to optimize the predictive relationship between earlyMath and broad math achievement (Table 1). The weighting is specific to each season. It is important to emphasize that the weighting is influenced by the possible score range, as well as the value of the skill. For example, Number Identification sounds is an

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important skill with a score range of 0 to 60 (or more) numbers per minute. This represents a broad range of possible scores with benchmark scores that are fairly high (e.g., benchmarks for fall, winter, and spring might be 10, 23, and 35, respectively). In contrast, Match Quantity has a score range from 0 to 12 and benchmarks are relatively low in value (e.g., benchmarks might be 7, 10 and 12, respectively).

As a result of both the score range *and* the relative value of Match Quantity to overall early math performance, the subtest score is more heavily weighted in the composite score. The weightings are depicted in Table 2 (below). The high (H), moderate (M), and low (L) weights indicate the relative influence of a one point change in the subtest on the composite score. A one point change for an H weighting is highly influential. A one point change in an L weighting has low influence.

The composite scores should be interpreted in conjunction with specific subtest scores. A variety of patterns might be observed. It is most common for students to perform consistently above or below benchmark on the composite and subtests; however, it is also possible to observe that a particular student is above benchmark on one or more measures, but below the composite benchmark. It is also possible for a student to be below benchmark on one or more subtests, but above the composite benchmark. Although atypical, this phenomenon is not problematic. The recommendation is to combine the use of composite and subtest scores in order to optimize the decision-making process. Overall, composite scores are the best predictors of future math success.

**Table 2 Weighting Scheme for earlyMath Composite Scores**

earlyMath Subtests	Kindergarten			First Grade		
	F	W	S	F	W	S
Match Quantity	M					
Composing	X					
Decomposing (K)		H	H			
Numeral Identification	L	L	L	L		
Number Sequence	H	H	H	M	M	
Decomposing (1)				M	M	M
Place Value					M	M
Story Problems						H
Broad Score						

*Note. The weighting of subtests for the composite is represented above.*

*H – high weighting, M – moderate weighting, L – low weighting.*

*X – Included as recommended measure but not used in composite.*

## CBMmath

CBMmath consists of two types of assessments—Process and Automaticity—that measure different computational skills from Grades 1 through 6. Automaticity skills are those which are considered to be automatized. They include rapid recall of mathematics facts (e.g., multiplication time tables) that should take little or no cognitive effort. Process skills are those in which the student may have to solve multiple steps to reach a solution. Students are not expected to have these items memorized and would be given paper and a pencil to work out the solution. Because of the higher amount of cognitive effort, process skills are inherently more difficult than fluency skills.

**Automaticity**, or fluency, scores are reported in items correct per 10 min. Although the administrations are only one to two minutes in duration, the use of a 10 minute scale helps avoid decimals and provides a more sensitive scale (1.3 items correct per minute versus 13 items correct per 10 minute, **IC10**).

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**Process** scores are based on the multiple steps required to solve a problem. Although the administration is timed to 10 to 15 min, these are not considered fluency or automaticity-type assessments. Items are weighted by the total number of possible process errors within the item. For example, there are more possible process errors within a multiplication item than within an addition item. Therefore, a multiplication item would be worth more possible points. Incorrect answers will be analyzed in order to determine which of the potential errors led to the incorrect response.

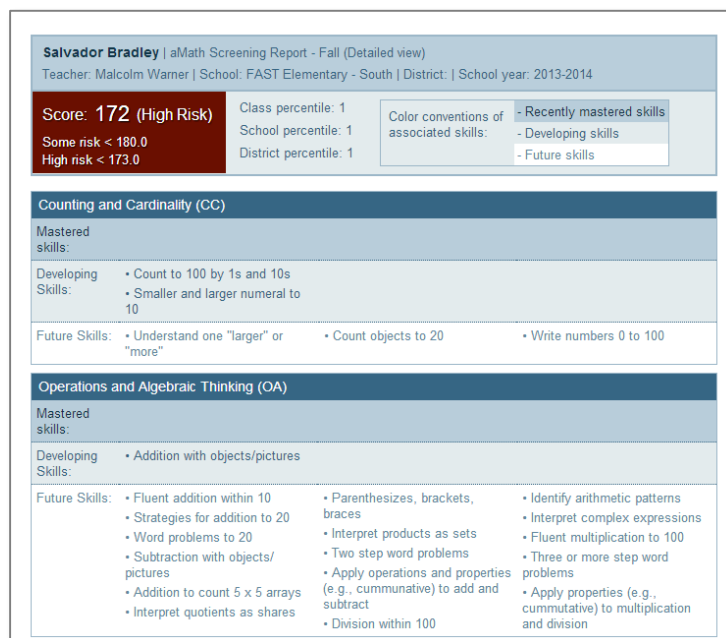
Process errors include the following: Operations (addition, subtraction, multiplication, and division), Order of Operations, Regrouping or Carrying, Place Holder/Value, Remainder, Skips, Blanks, and Unknown.

### aMath

The aMath scale yields scores with a mean value of 200 and the standard deviation of 15 across K to 7<sup>th</sup> grades.

#### Interpreting aMath Scaled Scores

Scores should be interpreted with reference to the norms and benchmarks. In addition, the aMath has descriptions regarding the interpretation a student's scaled score with respect to mastered, developing, and future skill development. These are intended to help teachers better understand the developmental progression and student needs. The FAST™ system generates individual reports to describe the math skills that student has mastered, is developing, and will develop based on the student's scaled score. *Figure 2* provides an example of a student's score report and their mastered, developing, and future skills within the domains of Counting and Cardinality. Similar skills are listed for the other CCSS or state aligned domains.



*Figure 2.* Skills Report for aMath

## Behavior and Social-Emotional Development/Risk

FAST™ reports a student’s overall performance on each SAEBRS scale as a sum of item scores within each scale. Scores range from 0–18 for **Social Behavior**, 0–18 for **Academic Behavior**, 0–21 for **Emotional Behavior**, and 0–57 for **Total Behavior**. The Total Behavior score is calculated by summing the Social Behavior, Academic Behavior, and Emotional Behavior subscale scores. Although SAEBRS scores can often be used as continuous variables, it is sometimes convenient to classify scores as *at risk* and *not at risk*. Using the ranges in Table 3, subscale and scale score can be dichotomized in terms of risk categories within the domains. SAEBRS risk ranges have been established based on comparison of the SAEBRS to multiple criterion gold-standard behavior rating scales, including the *Social Skills Improvement System* (Gresham & Elliot, 2008) and the *Behavioral and Emotional Screening System BASC-2* [Kamphaus & Reynolds, 2007].

Table 3 SAEBRS Score Ranges for Risk and No Risk

SAEBRS Scale/Subscale	Not At Risk	At Risk
General Behavior	37–57	0–36
Social Behavior	13–18	0–12
Academic Behavior	10–18	0–9
Emotional Behavior	18–21	0–17

**Risk for social behavior problems** – student displays behaviors that limit his/her ability to maintain age-appropriate relationships with peers and adults.

**Risk for academic behavior problems** – student displays behaviors that limit his/her ability to be prepared for, participate in, and benefit from academic instruction.

**Risk for emotional behavior problems** – student displays actions that limit his/her ability to regulate internal states, adapt to change, and respond to stressful/challenging events.



## Early Childhood and School Readiness

DevMilestones is intended for use in evaluating student achievement of developmental milestones within and across multiple developmental domains. The 33 items comprising DevMilestones correspond to six subscales, each of which represents a different developmental domain. These include **Language, Literacy, and Communications** (6 items), **Cognitive Development** (8 items), **Social and Emotional Development** (8 items), **Creativity and the Arts** (3 items), **Approaches to Learning** (5 items), and **Physical and Motor Development** (3 items).

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### Item Score

Each item rating is converted to a numerical **item score**. Ratings of “Unable to rate” do not produce an item score and therefore are also not counted toward any subscale scores. The remaining item ratings are scored in the following fashion:

Item Rating	Timing Expectations	Score
Not yet at first level	Pre-K	0
Inquiring	K-Entry	1
Emerging	Fall	2
Incorporating	Winter	3
Mastering	Spring	4

Higher scores relative to expectations for each administration time period suggest the student’s performance is above expectations for that skill. Lower scores indicate below expected performance of that skill. The finding of below expected performance would suggest the skill should potentially be targeted for intervention. The student support team, in collaboration with each student’s classroom teacher, should determine the ultimate necessity of intervention.

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### Subscale Score

**Subscale scores** are calculated by summing item scores within each subscale and dividing the sum by the total number of items scored. This yields a mean subscale score. If any item is rated as, “unable to rate,” that item is not counted within the total number of items available for a subscale. Higher scores relative to expectations for each administration time period would suggest the student’s performance is at or above expectations within the developmental domain to which the subscale corresponds. Lower scores indicate performance that is either overall below expectations across all subscale items, or, performance is variable across subscale items (i.e., some above or meeting expectations and some below). The finding of below expectation performance within a subscale should trigger the analysis of individual item within that subscale to determine which specific skills are of concern.

## Total Score

The **total score** is calculated by summing item scores across all subscales and dividing the sum by the total number of items that were scored. This yields an overall mean DevMilestones score. Higher scores relative to expectations for each administration time period would suggest the student's performance is above expectations across all subscales. Lower scores indicate either overall below expectation performance or rather variable performance across subscales (i.e., some above or meeting expectations and some below). The finding of below expectation performance should trigger the analysis of subscale scores to determine which of the six domains are of concern.

## Standard Setting

Standards are the content or skills that are expected (*content standards*), which are often defined by a score for purposes of measurement (*performance standards*). A number of terms are used to reference performance standards, including: benchmarks, cut scores, performance levels, frustrational, instructional or mastery levels, and thresholds. These terms each reference categories of performance with respect to standards.

## Human Judgment

Standard setting is part of test development. It is necessary to address questions such as, "How much skill/ability defines proficiency?" There are many methods used for standards setting; however, human judgment is inherent to the process (Hambleton & Pitoniak, 2006) because some person(s) decide "how many" or "how much is enough" to meet a standard. Because judgment is involved, there are some criticisms that standard setting is arbitrary (Glass, 1978) and the results of standard setting are very often the source of debate and scrutiny. *The Standards for Educational and Psychological Testing* (AERA, APA & NCME, 1999) define the basic requirements to set standards and therein recognize the role of human judgment: "cut scores embody value judgments as well as technical and empirical considerations" (p. 54). The standard setting process is designed to ensure those value judgments are well-informed. The *Standards* along with the professional literature (e.g., Hambleton & Pitoniak, 2006; Swets, Dawes & Monahan, 2000) guide the standard setting processes for FAST™. A brief description of relevant concepts and methods is below.

Kane (1994, 2006, 2013) suggests that the rationale and reasons for the selected standard setting procedure are often the most relevant and important source of evidence for the validity of standards to interpret scores. The method should be explicit, practical for the intended interpretation and use, implemented with fidelity, and documented (Hambleton & Pitoniak, 2006). The convergence of standards with other sources of information, such as criterion measures, also contributes to validation; however, such evidence is often limited because the quality and standards from external sources are often just as limited (Kane, 2001). Moreover, external sources, such as criterion measures, are often unavailable or misaligned with the experimental measure or intended use for the standard. This is discussed in more detail below.

## Methods for Setting Standards

There are methods to set relative or absolute standards. **Norm-referenced** methods are most familiar to the general public. They are used to set a relative standard such that a particular proportion of a population is above or below the standard. For example, if the standard is set at the 40<sup>th</sup> percentile, then 39% of the population is below and 60% is at or above. Norm-referenced standards are relative to the performances in the population.

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As noted by Sereci (2005), “scores are interpreted with respect to being better or worse than others, rather than with respect to the level of competence of a specific test taker” (p. 118). Norm-referenced standards are used in FAST™ to guide resource allocation. Grade-level norms are provided for the class, school, district, and nation.

Absolute or **critierion-referenced** methods are less familiar to the general public. They are used to define “how much is enough” to be above or below a standard. For example, if the standard is that students should identify all of the letters in the alphabet with 100% accuracy, then all of the students in a particular grade might be above or below that standard. These methods often rely on the judgment of experts who classify items, behaviors, or individual persons. Those judgments are used to define the standard. For example, the expert is asked to consider a person whose performance is just at the standard. They then estimate the probability that person would exhibit a particular behavior or response correctly to a particular item. Another approach is to have that expert classify individuals as above or below the standard. Once classified, the performance of the individuals is analyzed to define the standard. The particular method is carefully selected based on the content and purpose of the measure and standard. Careful selection of experts and panels, training, procedures, validation and documentation are all important components of those expert-based approaches.

### FAST™ Standard Setting: Screening

In general, there are moderate-to-good criterion measures available to FAST™ for standard setting. There are a variety of standards in FAST™ that inform goal setting (e.g., 1.5 WRCM per week improvement), identify instructional level (e.g., aReading, aMath), and evaluate the accuracy of student performance (e.g., 95% accuracy on WRCM); however, this document is limited to the norm-referenced and criterion-referenced (aka, benchmark) standards used to interpret reading performance after screening.

**Norm-referenced standards.** FAST™ reports the percentile ranks, or percentiles, of scores relative to same-grade peer performance in the class, school, district, and FAST™ users around the nation. Those percentiles are classified with standards at the 20<sup>th</sup> (red), 30<sup>th</sup> (yellow), 40<sup>th</sup> (green), and 85<sup>th</sup> percentiles (blue). These standards were set to support early intervention and prevention within multi-tiered systems of support (MTSS; CITE). It was the expert opinion of Dr. Christ that most systems can provide supplemental and intensive supports to 20 to 30% of their student population who may be at-risk and 15% who are high achievers (Christ, 2008; Christ & Arañas, 2014). Schools rarely have resources to support more than 30% of at-risk learners with supplemental and intensive supports, even if a larger proportion would benefit. The norm-referenced standards are applied to each norm group to support decisions by individual teachers (class norms), school-based grade level teams (school norms), and districtwide grade level teams (district norms). The percentiles and standards should be used to identify the individuals who will receive supplemental support. The proportion of the population who receive supports depends on the availability of resources. For example, one school might provide supplemental support to all students below the 30<sup>th</sup> percentile (red and yellow). Another school might provide supplemental support to all students below the 20<sup>th</sup> percentile (red), but monitor those below the 30<sup>th</sup> percentile (yellow). These are local decisions that should be determined in consideration of the balance between student needs and system resources.

National norms are used to compare local performance to that of an external group. The standards (color codes) are applied to support decisions about core and system-level supports. Visual analysis of color codes are useful to estimate the typicality of achievement in the local population. They are often used in combination

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with benchmarks to guide school- and district-level decisions about instruction, curriculum, and system-wide services (e.g., are the schoolwide core reading services sufficient to prevent deficit achievement for 80% of students). If FAST™ data indicate that much more than 20% of a school's or district's students are below the 20<sup>th</sup> percentile on national norms, then remediation efforts in that area should be considered as the data suggest that the core instruction is not supporting adequate achievement. If they observe that fewer than 20% of the total school population is below the 20<sup>th</sup> percentile on national norms, their population is over-performing relative to others. Subsequently, the school should continue using effective services, but identify another domain of focus.

**Criterion-Referenced Standards: Benchmarks.** FAST™ reports provide tri-annual grade-level benchmarks, which generally correspond with the 15<sup>th</sup> and 40<sup>th</sup> percentiles on national norms. Scores below the 15<sup>th</sup> percentile are classified as “high-risk.” Those at-or-above the 15<sup>th</sup> and below the 40<sup>th</sup> are “some risk;” and those at or above the 40<sup>th</sup> are “low risk.” This is consistent with established procedures and published recommendations (e.g., RTI Network). It is common practice to use norm-referenced standards at the 15<sup>th</sup> and 40<sup>th</sup> percentiles; or to use pre-determined standards on state achievement tests. As quoted from the RTI Network:

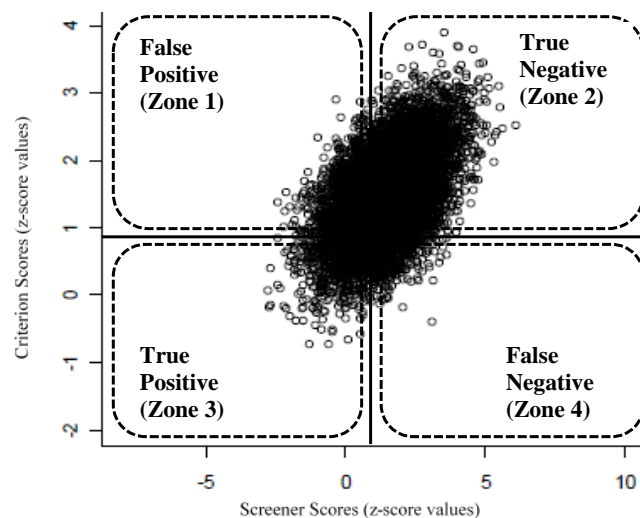
*“Reading screens attempt to predict which students will score poorly on a future reading test (i.e., the criterion measure). Some schools use norm-referenced test scores for their criterion measure, defining poor reading by a score corresponding to a specific percentile (e.g., below the 10<sup>th</sup>, 15<sup>th</sup>, 25<sup>th</sup>, or 40<sup>th</sup> percentile). Others define poor reading according to a predetermined standard (e.g., scoring below “basic”) on the state’s proficiency test. The important point is that satisfactory and unsatisfactory reading outcomes are dichotomous (defined by a cut-point on a reading test given later in the students’ career). Where this cut-point is set (e.g., the 10<sup>th</sup> or 40<sup>th</sup> percentile) and the specific criterion reading test used to define reading failure (e.g., a state test or SAT 10) greatly affects which students a screen seeks to identify” (retrieved on 1-24-15 from <http://www.rtinetwork.org/essential/assessment/screening/readingproblems>)*

The procedure used by FAST™ is described in more detail below. Again, FAST™ establishes benchmarks that approximate the 15<sup>th</sup> and 40<sup>th</sup> percentiles on national norms. Our analysis and published recommendations provides evidence on the correspondence with those standards and proficiency on state tests. State and district-specific standards can be developed at the request of users.

**Decision accuracy: Receiver operator curves.** Once the standard-setting methods are selected, the accuracy of classification decisions is evaluated (Swets et al., 2000). This process addresses the question, “With what consistency and validity does this test score classify students?” It has become increasingly popular to use receiver operator curve analysis or logistic regression to inform standard setting. The process is described below.

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As illustrated in the *Figure 3*, there are four possible classification outcomes: true positive (TP; Zone 3), true negative (TN; Zone 2), false positive (FP; Zone 1), and false negative (FN; Zone 4). A TP classification indicates that the predictor (e.g., CBM-R) and criterion (e.g., performance on statewide test) agree that the student is a deficit reader (i.e., accurate classification; Zone 3). TN indicates that the predictor and criterion agree that the student is a proficient reader (i.e., accurate classification; Zone 2). FP indicates disagreement such that the predictor is positive and the criterion is negative (i.e., inaccurate classification; Zone 1). FN indicates disagreement such that the predictor is negative and the criterion is positive (i.e., inaccurate classification; Zone 4). Most professionals in education agree that a FN classification (Zone 4) is the most problematic, as it includes students who are classified as proficient and later are observed to be not proficient. The primary metrics for classification outcomes are sensitivity and specificity.



*Figure 3.* Diagnostic Accuracy for Benchmarks

These along with secondary metrics are described in the following list:

**Sensitivity (true-positive proportion, TPP):** Of the cases with criterion scores below the cutoff point (i.e., criterion = deficit), for what percentage was the screener score below the decision threshold (i.e., screener = deficient)?

**Specificity (true-negative proportion, TNP):** Of the cases with true criterion scores above the cutoff point (i.e., criterion = sufficient), for what percentage was the screener score above the decision threshold (i.e., screener = sufficient)?

**Positive predictive value (PPV):** Of the cases with screener scores below the decision threshold (i.e., screener = insufficient), what percentage have a criterion score also below the cutoff point (i.e., criterion = deficit)?

**Negative predictive value (NPV):** Of the cases with screener scores above the decision threshold (i.e., screener = sufficient), what percentage have a criterion score also above the cutoff point (i.e., criterion = sufficient)?

In addition, phi and kappa coefficients often are used to estimate association, or agreement, between the screener and criterion value. Phi is interpreted as a correlation coefficient for categorical variables. Unlike phi, kappa coefficients are adjusted for chance agreement, which is more desirable. General rules for the interpretation of kappa are as follows: .60 = moderate, .61 to .80 = substantial, and .81 to 1.00 = almost perfect.

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It should be apparent from a review of Figure 3 that decisions based on the screener are inherently imperfect. The depiction in that particular figure illustrates a correlation of approximately .70 between the predictor and criterion measure. In this example, CBMreading is an imperfect predictor of performance on the state test. Regardless of the measures, there will always be an imperfect relationship. This is also true for test-retest and alternate-form reliability (i.e., performance on the same test on two occasions). Tests are inherently unreliable, and all interpretations of scores are tentative. This is especially true for screening assessments, which are designed to be highly efficient and, therefore, often have less reliability and validity than a more comprehensive, albeit inefficient, assessment.

**Area under the curve (AUC).** Area under the curve (AUC) is used as a measure of predictive power. It is obtained by calculating the sensitivity and specificity values for all possible cutoff points on the screener by fixing a cutoff point on criterion measure and plotting *specificity* (or TPP) against *sensitivity* (or TNP). AUC is expected to be .5 if the screener provided little or no information. AUC is expected to be 1.0 for a perfect diagnostic method to identify the students at risk correctly. Generally, the criteria applied in the interpretation of AUCs consider values of .90 to 1.0 to be excellent, .80 to .89 good, .70 to .79 fair, and less than .69 poor. It seems reasonable and generally consistent with the standards outlined by the National Center for Response to Intervention (NCRTI) that an AUC of at least .85 is required for low-stakes decisions (e.g., screening) and that an AUC of at least .90 is required for high-stakes decisions (e.g., eligibility and decision making).

**Decision threshold.** A decision threshold is established to maximize the benefits of the decision process relative to its costs (Swets, Dawes, & Monahan, 2000). That threshold is adjusted to establish a neutral, lenient, or strict classification criterion for the predictor. A neutral threshold will balance the proportion of TP and FP, although not all thresholds should be balanced. For example, screening measures for reading often over-identify students (increase the rate of TP as well as FP) to ensure that fewer positive cases are missed. This is a rational choice, because failure to identify TP outweighs the consequences of increased FP.

Thresholds that are more lenient (over-identify) increase sensitivity, thereby increasing the proportion of positive classifications (both TP and FP). Thresholds that are more strict (under-identify) increase specificity, thereby increasing the proportion of negative classifications (both TN and FN; Swets et al., 2000). The decision threshold is adjusted to obtain the optimal ratio of positive and negative classifications along with that of true and false classifications.

For example, Silbergitt and Hintze (2005) systematically modified the CBMreading benchmark scores in Third Grade to optimize the cut score, which improved classification accuracy. In general, FAST™ uses a procedure to balance sensitivity and specificity so that benchmarks neither over- nor under-identify individuals.

# Interpretation and Use

CBMreading (English): 2<sup>nd</sup> Grade

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter M (SD)	Winter-Spring M (SD)	Fall-Spring M (SD)
95th	123	146	162	1.49	1.52	1.50	2.08	2.19	2.02	1.14 (0.73)	0.80 (0.79)	1.03 (0.45)
90th	113	138	152	1.59	1.58	1.59	2.44	1.98	1.89			
85th	104	131	145	1.64	1.58	1.62	2.28	1.81	1.79			
80th	97	125	140	1.84	1.52	1.70	2.14	1.87	1.70	1.64 (0.61)	1.08 (0.64)	1.38 (0.38)
75th	91	119	135	1.84	1.52	1.70	2.02	1.55	1.63			
70th	88	114	130	1.94	1.52	1.78	1.90	1.44	1.56			
65th	81	109	126	1.99	1.58	1.81	1.80	1.34	1.49			
60th	76	105	122	1.94	1.58	1.79	1.70	1.24	1.43			
55th	71	100	117	1.79	1.65	1.73	1.81	1.15	1.37			
50th	67	96	113	1.64	1.78	1.70	1.51	1.08	1.31			
45th	63	91	109	1.49	1.85	1.64	1.42	0.97	1.25			
40th	59	87	105	1.34	1.92	1.59	1.33	0.88	1.19			
35th	53	84	100	1.24	1.92	1.53	1.24	0.78	1.13			
30th	48	78	96	1.14	1.92	1.47	1.14	0.68	1.06			
25th	42	73	90	0.99	1.85	1.38	1.03	0.58	0.99	1.55 (0.68)	1.21 (0.57)	1.38 (0.45)
20th	36	67	86	0.89	1.65	1.22	0.91	0.47	0.92			
15th	30	61	79	0.79	1.45	1.08	0.78	0.35	0.83			
10th	24	52	70	0.70	1.25	0.94	0.62	0.20	0.73			
5th	17	40	60	0.55	0.92	0.71	0.43	0.00	0.60			
M	68	95	112	1.41	1.61	1.50	1.53	1.08	1.31			
SD	32	31	30	0.45	0.25	0.31	0.67	0.65	0.43			

Note. N (Fall, Winter, Spring) = 39578, 41654, 41425

1 Seasonal differences and growth estimates are of average weekly growth except for aReading and aMath, which are average monthly growth.


2 Values in the **Scores** columns are the performance of the norm group on the fall, winter and spring screening occasions.

3 Values in the **Seasonal Score Differences** columns are the differences in performances of the norm group between fall, winter and spring screening occasions. These can be compared to the Score in the same row.

4 Values in the **Weekly (or Monthly) Growth** columns are growth rates arranged from least (5<sup>th</sup>) to most (95<sup>th</sup>) percentile in the

norm group. These cannot be compared to Scores in the same row because the Scores are sorted independently of Growth in these columns.


5 Values in the **Weekly (or Monthly) Growth by Percentile Group** columns are the average (M) and standard deviation (SD) of growth rates within each of three score regions, which are high achieving (>85<sup>th</sup> Score percentile, blue), typical (30 to 84<sup>th</sup> Score percentile, green), and low achieving (<30<sup>th</sup> Score percentile, red). These can be compared to Scores columns. For example, the group who starts below the 80<sup>th</sup> percentile (green) has an average growth of 1.64 (see example above).


 - Reported values are within the validation phase.


# Benchmarks


## Early Reading (earlyReading)

### earlyReading (English) Benchmarks

Measure	Risk	Kindergarten			1st Grade		
		Fall	Winter	Spring	Fall	Winter	Spring
<b>Concepts of Print</b> (# Correct/12)	Some risk	< 8	< 11				
	High risk	< 6	< 9				
<b>Onset Sounds</b> (# Correct/16)	Some risk	< 12	< 16	< 16	< 16		
	High risk	< 7	< 14	< 14	< 15		
<b>Letter Names</b> (Rate)	Some risk	< 20	< 42	< 50	< 41	< 54	
	High risk	< 7	< 30	< 38	< 31	< 43	
<b>Letter Sounds</b> (Rate)	Some risk	< 5	< 28	< 41	< 31	< 43	
	High risk	< 1	< 18	< 30	< 21	< 31	
<b>Word Rhyming</b> (# Correct/16)	Some risk	< 6	< 13	< 14	< 14	< 15	
	High risk	< 3	< 7	< 9	< 9	< 10	
<b>Word Blending</b> (# Correct/10)	Some risk	< 5	< 6	< 9	< 10	< 10	< 10
	High risk	< 1	< 1	< 7	< 7	< 9	< 9
<b>Oral Repetition</b>  (# Correct/40)	Some risk	< 19	< 23	< 25	< 25	< 28	< 28
	High risk	< 6	< 14	< 18	< 20	< 24	< 24
<b>Word Segmenting</b> (# Correct/34)	Some risk	< 3	< 25	< 30	< 26	< 30	< 32
	High risk	< 0	< 15	< 26	< 21	< 27	< 29
<b>Nonsense Words</b> (Rate)	Some risk	NA	< 7	< 12	< 9	< 15	< 20
	High risk		< 3	< 8	< 5	< 10	< 14
<b>Decodable Words</b> (Rate)	Some risk		< 7	< 12	< 9	< 15	< 20
	High risk		< 3	< 8	< 5	< 10	< 14
<b>Sight Words (50 - K)</b> (Rate)	Some risk	NA	< 9	< 20			
	High risk		< 4	< 7			
<b>Sight Words (150 – 1st)</b> (Rate)	Some risk				< 20	< 48	< 64
	High risk				< 7	< 26	< 49
<b>Sentence Reading</b> (Rate)	Some risk				< 18		
	High risk				< 10		
<b>CBMreading</b> (Rate)	Some risk				Sentence Reading	< 41	< 70
	High risk					< 22	< 44
<b>earlyReading Composite</b> (Scaled Score)	Some risk	< 34	< 51	< 64	< 34	< 51	< 64
	High risk	< 29	< 44	< 56	< 26	< 37	< 49


 - Subtests that are required to estimate a composite score of broad reading achievement.


 - Alternate replacement for Nonsense Words to obtain a composite score. This option must be preset by the District


Manager. The recommendation and default is to use Nonsense Words.  - Reported values are within the validation phase.




earlyReading (Spanish) Benchmarks

Measure	Risk	Kindergarten			1st Grade		
		Fall	Winter	Spring	Fall	Winter	Spring
<b>Concepts of Print</b> (# Correct/12)	Some risk High risk	< 9 < 7					
<b>Onset Sounds</b> (# Correct/16)	Some risk High risk	< 11 < 9	< 13 < 11	< 15 < 14			
<b>Letter Names</b> (Rate)	Some risk High risk	< 10 < 8	< 19 < 17	< 34 < 32			
<b>Letter Sounds</b> (Rate)	Some risk High risk	< 8 < 7	< 15 < 14	< 30 < 25	< 22 < 12		
<b>Word Rhyming</b> (# Correct/16)	Some risk High risk	< 9 < 8	< 11 < 10	< 14 < 14			
<b>Word Blending</b> (# Correct/10)	Some risk High risk	< 0 < 0	< 4 < 1	< 6 < 5			
<b>Oral Repetition</b>  (# Correct/40)	Some risk High risk	< 19 < 6	< 23 < 14	< 25 < 18	< 25 < 20	< 28 < 24	< 28 < 24
<b>Word Segmenting</b> (# Correct/34)	Some risk High risk	< 3 < 2	< 20 < 14	< 29 < 26	< 25 < 23	< 29 < 27	< 31 < 29
<b>Syllable Reading</b> (Rate)	Some risk High risk	< 1 < 0	< 9 < 8	< 23 < 18	< 21 < 16	< 37 < 35	< 51 < 45
<b>Decodable Words</b> (Rate)	Some risk High risk			< 10 < 8	< 8 < 5	< 19 < 16	< 32 < 29
<b>Sight Words (50 - K)</b> (Rate)	Some risk High risk	-		< 15 < 10			
<b>Sight Words (150 – 1st)</b> (Rate)	Some risk High risk				< 15 < 10	< 37 < 30	< 60 < 56
<b>Sentence Reading</b> (Rate)	Some risk High risk			< 14 < 8	< 16 < 13		
<b>CBMreading</b> (Rate)	Some risk High risk				Sentence Reading	< 45 < 33	< 72 < 53
<b>earlyReading Composite</b> (Scaled Score)	Some risk High risk	< 37 < 34	< 48 < 44	< 68 < 62	< 41 < 36	< 55 < 45	< 66 < 52

 - Subtests that are required to estimate a composite score of broad reading achievement.


 - Alternate replacement for Syllable Reading to obtain a composite score. This option must be preset by the District Manager. The recommendation and default is to use Syllable Reading.

 - Reported values are within the validation phase.

Curriculum-Based Measurement of Reading (CBMreading)

CBMreading (English) Benchmarks

CBMreading (English)	Metric	Risk	Fall	Winter	Spring
1 <sup>st</sup> Grade	Rate	Some risk High risk	< 18 < 10	< 41 < 22	< 70 < 44
2 <sup>nd</sup> Grade	Rate	Some risk High risk	< 59 < 30	< 87 < 61	< 105 < 79
3 <sup>rd</sup> Grade	Rate	Some risk High risk	< 91 < 63	< 115 < 88	< 130 < 103
4 <sup>th</sup> Grade	Rate	Some risk High risk	< 116 < 93	< 135 < 110	< 150 < 123
5 <sup>th</sup> Grade	Rate	Some risk High risk	< 133 < 107	< 150 < 123	< 161 < 137
6 <sup>th</sup> Grade	Rate	Some risk High risk	< 141 < 116	< 158 < 130	< 171 < 144
7 <sup>th</sup> Grade 	Rate	Some risk High risk	<139 <111	<146 <118	<151 <124
8 <sup>th</sup> Grade 	Rate	Some risk High risk	<127 <99	<134 <106	<139 <112

**Note.** Words Read Correct per Minute (WRCM) assuming 95% reading accuracy.  - Reported values are within the validation phase.


CBMreading (Spanish) Benchmarks

CBMreading (Spanish)	Metric	Risk	Fall	Winter	Spring
1 <sup>st</sup> Grade	Rate	Some risk High risk		< 45 < 33	< 72 < 53
2 <sup>nd</sup> Grade	Rate	Some risk High risk	< 72 < 66	< 91 < 85	< 116 < 104
3 <sup>rd</sup> Grade	Rate	Some risk High risk	< 66 < 61	< 74 < 71	< 107 < 94
4 <sup>th</sup> Grade	Rate	Some risk High risk	< 111 < 105	< 130 < 125	< 139 < 133
5 <sup>th</sup> Grade	Rate	Some risk High risk	< 120 < 110	< 126 < 118	< 141 < 136

**Note.** Words Read Correct per Minute (WRCM) assuming 95% reading accuracy.

**Adaptive Reading (aReading) Benchmarks**

aReading	Metric	Risk	Fall	Winter	Spring
Kindergarten	Scaled Score	Some risk High risk	< 386 < 372	< 417 < 391	< 434 < 416
1 <sup>st</sup> Grade	Scaled Score	Some risk High risk	< 434 < 415	< 453 < 439	< 469 < 451
2 <sup>nd</sup> Grade	Scaled Score	Some risk High risk	< 468 < 451	< 479 < 469	< 486 < 475
3 <sup>rd</sup> Grade	Scaled Score	Some risk High risk	< 483 < 474	< 496 < 480	< 501 < 486
4 <sup>th</sup> Grade	Scaled Score	Some risk High risk	< 499 < 481	< 505 < 492	< 511 < 498
5 <sup>th</sup> Grade	Scaled Score	Some risk High risk	< 508 < 495	< 515 < 501	< 521 < 505
6 <sup>th</sup> Grade	Scaled Score	Some risk High risk	< 516 < 502	< 521 < 506	< 527 < 510
7 <sup>th</sup> Grade	Scaled Score	Some risk High risk	< 521 < 504	< 522 < 507	< 528 < 510
8 <sup>th</sup> Grade	Scaled Score	Some risk High risk	< 528 < 508	< 529 < 514	< 530 < 516
9 <sup>th</sup> Grade 	Scaled Score	Some risk High risk	< 530 < 517	< 531 < 519	< 532 < 519
10 <sup>th</sup> Grade 	Scaled Score	Some risk High risk	< 530 < 519	< 531 < 519	< 531 < 519
11 <sup>th</sup> Grade 	Scaled Score	Some risk High risk	< 531 < 520	< 531 < 520	< 531 < 520
12 <sup>th</sup> Grade 	Scaled Score	Some risk High risk	< 531 < 520	< 531 < 520	< 531 < 520

 - Reported values are within the validation phase.

Early Math (earlyMath)



earlyMath Benchmarks


Measure	Risk	Kindergarten			1st Grade		
		Fall	Winter	Spring	Fall	Winter	Spring
<b>Subitizing</b> (# Correct/12)	Some risk High risk	< 6 < 3	< 11 < 9	< 17 < 15	< 11 < 9		
<b>Numeral Identification</b> (30 – K) (Rate)	Some risk High risk	< 14 < 10	< 30 < 20	< 38 < 30			
<b>Numeral Identification</b> (120 -- 1 <sup>st</sup> ) (Rate)	Some risk High risk				< 30 < 25	< 37 < 34	< 42 < 38
<b>Match Quantity</b> (Rate)	Some risk High risk	< 9 < 7	< 10 < 9	< 12 < 10			
<b>Quantity Discrimination – Most</b> (Rate)	Some risk High risk			< 8 < 6	< 10 < 8		
<b>Quantity Discrimination – Least</b> (Rate)	Some risk High risk			< 7 < 6			
<b>Number Sequence</b> (# Correct/13)	Some risk High risk	< 5 < 3	< 7 < 5	< 9 < 8	< 5 < 3	< 8 < 5	< 11 < 8
<b>Composing</b> (# Correct/8)	Some risk High risk		< 6 < 4		< 4 < 0		
<b>Decomposing (K)</b> (# Correct/8)	Some risk High risk		< 4 < 3	< 5 < 4			
<b>Decomposing (1<sup>st</sup>)</b> (# Correct/8)	Some risk High risk				< 3 < 1	< 6 < 4	< 8 < 5
<b>Counting Objects</b> (# Correct/10)	Some risk High risk	< 9 < 7					
<b>Verbal Addition</b> (Rate)	Some risk High risk					< 8 < 5	< 10 < 8
<b>Verbal Subtraction</b> (Rate)	Some risk High risk					< 6 < 4	< 8 < 6
<b>Place Value</b> (Rate)	Some risk High risk					< 5 < 3	< 6 < 4
<b>Visual Story Problems</b> (# Correct/6)	Some risk High risk					< 3 < 1	< 4 < 2
<b>earlyMath Composite</b> (Scaled Score)	Some risk High risk	< 34 < 27	< 54 < 31	< 63 < 31	< 33 < 13	< 54 < 31	< 62 < 38

■ - Subtests that are required to estimate a composite score of broad mathematics achievement.

**Adaptive Math (aMath)**

**aMath Benchmarks**


aMath	Metric	Risk	Fall	Winter	Spring
Kindergarten	Scaled Score	Some risk High risk	< 178 < 173	< 184 < 178	< 188 < 184
1 <sup>st</sup> Grade	Scaled Score	Some risk High risk	< 188 < 184	< 192 < 189	< 196 < 192
2 <sup>nd</sup> Grade	Scaled Score	Some risk High risk	< 196 < 192	< 200 < 195	< 203 < 198
3 <sup>rd</sup> Grade	Scaled Score	Some risk High risk	< 202 < 198	< 207 < 201	< 210 < 204
4 <sup>th</sup> Grade	Scaled Score	Some risk High risk	< 209 < 203	< 212 < 207	< 217 < 210
5 <sup>th</sup> Grade	Scaled Score	Some risk High risk	< 214 < 207	< 220 < 212	< 224 < 217
6 <sup>th</sup> Grade	Scaled Score	Some risk High risk	< 220 < 211	< 223 < 216	< 224 < 217
7 <sup>th</sup> Grade 	Scaled Score	Some risk High risk	< 224 < 217	< 225 < 218	< 225 < 218
8 <sup>th</sup> Grade 	Scaled Score	Some risk High risk	< 225 < 218	< 225 < 219	< 225 < 219


 - Reported values are within the validation phase.

**CBMmath**

**CBMmath Automaticity Benchmarks** 


CBMmath Automaticity	Metric	Risk	Fall Readiness (Prior Grade)	Fall (Grade Level)	Winter (Grade Level)	Spring (Grade Level)
1 <sup>st</sup> Grade	Rate (per 10 min)	Some risk High risk	earlyMath	earlyMath	< 26 < 13	< 40 < 20
2 <sup>nd</sup> Grade	Rate (per 10 min)	Some risk High risk	< 40 < 20	< 13 < 1	< 20 < 6	< 26 < 13
3 <sup>rd</sup> Grade	Rate (per 10 min)	Some risk High risk	< 26 < 13	< 30 < 13		
4 <sup>th</sup> Grade	Rate (per 10 min)	Some risk High risk	< 40 < 20			


 - Alternate or supplemental measure to examine Fall Readiness, which is evaluated with the automaticity measure and benchmark for the prior year. These measures align with the Common Core State Standards (2010), which are rigorous and ambitious for many. Off grade-level assessment is often necessary.

 - Reported values are within the validation phase.

**CBMmath Process Benchmarks** 

CBMmath Process	Metric	Risk	Fall Readiness (Prior Grade)	Fall	Winter	Spring
2 <sup>nd</sup> Grade	Items Correct	Some risk High risk	earlyMath	< 12 < 4	< 23 < 16	< 31 < 22
3 <sup>rd</sup> Grade	Items Correct	Some risk High risk	< 31 < 22	< 24 < 20	< 32 < 25	< 33 < 29
4 <sup>th</sup> Grade	Items Correct	Some risk High risk	< 33 < 29	< 55 < 26	< 60 < 31	< 64 < 36
5 <sup>th</sup> Grade	Items Correct	Some risk High risk	< 64 < 36	< 41 < 14	< 55 < 31	< 44 < 22
6 <sup>th</sup> Grade	Items Correct	Some risk High risk	< 44 < 22			

 - Alternate or supplemental measure to examine Fall Readiness, which is evaluated with the automaticity measure and benchmark for the prior year. These measures align with the Common Core State Standards (2010), which are rigorous and ambitious for many. Off grade-level assessment is often necessary.


 - Reported values are within the validation phase.

**SAEBRS (FAST Behavior)**

		All Grades
Measure	Risk	Fall
<b>Social Behavior</b>	Risk	< 13
<b>Academic Behavior</b>	Risk	< 10
<b>Emotional Behavior</b>	Risk	< 18
<b>General Behavior</b>	Risk	< 37

**Developmental Milestones (DevMilestones)**

		Kindergarten 		
Measure	Risk	Fall	Winter	Spring
<b>Approach Learning</b>	Some risk High risk	< 9 < 6	< 15 < 11	
<b>Cognitive</b>	Some risk High risk	< 13 < 8	< 24 < 18	
<b>Creative Arts</b>	Some risk High risk	< 6 < 4	< 9 < 8	<i>Pending S 2015</i>
<b>Language, Literacy and Communication</b>	Some risk High risk	< 13 < 5	< 18 < 9	
<b>Physical Motor</b>	Some risk High risk	< 6 < 4	< 9 < 8	
<b>Social Emotional</b>	Some risk High risk	< 16 < 11	< 24 < 20	

 - Reported values are within the validation phase.

# Norms

## earlyReading (English) Norms

### earlyReading (English) Concepts of Print: Kindergarten

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	12	12	12	0.00	0.00	0.00	0.33	-	-	0.01 (0.04)		
90th	11	12	12	0.05	0.00	0.03	0.28	-	-			
85th	11	12	12	0.05	0.00	0.03	0.25	-	-			
80th	10	12	12	0.10	0.00	0.06	0.23	-	-	0.12 (0.06)		
75th	10	12	12	0.10	0.00	0.06	0.22	-	-			
70th	10	12	12	0.10	0.00	0.06	0.20	-	-			
65th	9	12	12	0.15	0.00	0.09	0.17	-	-			
60th	9	12	12	0.15	0.00	0.09	0.17	-	-			
55th	9	11	12	0.10	0.06	0.09	0.16	-	-			
50th	8	11	12	0.15	0.07	0.11	0.15	-	-			
45th	8	11	12	0.15	0.07	0.11	0.12	-	-			
40th	8	11	12	0.15	0.07	0.11	0.11	-	-			
35th	7	10	11	0.15	0.07	0.11	0.09	-	-	-0.1 (1.1)		
30th	7	10	11	0.15	0.07	0.11	0.08	-	-			
25th	6	10	11	0.20	0.07	0.14	0.07	-	-			
20th	6	9	10	0.15	0.07	0.11	0.04	-	-			
15th	6	9	10	0.15	0.07	0.11	0.04	-	-			
10th	5	8	9	0.15	0.09	0.12	0.00	-	-			
5th	4	7	9	0.15	0.13	0.14	0.00	-	-			
M	8.22	10.68	11.22	0.12	0.04	0.09	0.15	-	-			
SD	2.22	1.56	1.16	-0.03	0.04	0.04	0.10	-	-			

**Note.** N (Fall, Winter, Spring) = 44388, 621, 192



**earlyReading (English) Onset Sounds: Kindergarten**

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	16	16	16	0.00	0.00	0.00	0.50	0.45	0.37	-0.01 (0.02)	0 (0)	0 (0)
90th	16	16	16	0.00	0.00	0.00	0.42	0.36	0.34			
85th	16	16	16	0.00	0.00	0.00	0.36	0.28	0.31			
80th	15	16	16	0.05	0.00	0.03	0.31	0.21	0.28	0.14 (0.08)	0.09 (0.03)	0.09 (0.05)
75th	15	16	16	0.05	0.00	0.03	0.27	0.18	0.26			
70th	15	16	16	0.05	0.00	0.03	0.24	0.11	0.24			
65th	14	16	16	0.10	0.00	0.06	0.21	0.10	0.22			
60th	14	16	16	0.10	0.00	0.06	0.18	0.08	0.20			
55th	13	16	16	0.15	0.00	0.09	0.16	0.00	0.18			
50th	13	16	16	0.15	0.00	0.09	0.12	0.00	0.14			
45th	12	16	16	0.20	0.00	0.11	0.11	0.00	0.13			
40th	12	16	16	0.20	0.00	0.11	0.07	0.00	0.11			
35th	11	15	16	0.20	0.07	0.14	0.06	0.00	0.09			
30th	10	15	16	0.25	0.07	0.17	0.05	0.00	0.06	0.41 (0.16)	0.37 (0.22)	0.3 (0.07)
25th	9	15	16	0.30	0.07	0.20	0.00	0.00	0.06			
20th	8	14	16	0.30	0.13	0.23	0.00	0.00	0.29			
15th	7	14	16	0.35	0.13	0.26	0.00	0.00	0.00			
10th	6	13	16	0.35	0.20	0.28	0.00	0.00	0.00			
5th	5	12	15	0.35	0.20	0.28	0.00	0.00	0.00			
M	11.83	15.08	15.84	0.16	0.05	0.11	0.17	0.10	0.16			
SD	3.73	1.54	0.57	0.12	0.07	0.10	0.16	0.16	0.12			

**Note.** N (Fall, Winter, Spring) = 44630, 47254, 403

**earlyReading (English) Letter Names: Kindergarten**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	48	68	74	0.99	0.40	0.74	2.26	2.30	1.54	0.69 (0.56)	0.29 (0.65)	0.59 (0.34)
90th	43	64	70	1.04	0.40	0.77	2.04	1.98	1.45			
85th	40	60	68	0.99	0.53	0.79	1.87	1.75	1.34			
80th	38	58	65	0.99	0.46	0.77	1.72	1.58	1.27	1.12 (0.53)	0.77 (0.66)	0.88 (0.3)
75th	35	56	62	1.04	0.40	0.77	1.60	1.43	1.22			
70th	33	53	60	0.99	0.46	0.77	1.50	1.29	1.16			
65th	30	51	59	1.04	0.53	0.82	1.40	1.17	1.11			
60th	28	49	57	1.04	0.53	0.82	1.30	1.09	1.05			
55th	26	47	55	1.04	0.53	0.82	1.22	0.98	1.00			
50th	24	45	53	1.04	0.53	0.82	1.13	0.88	0.96			
45th	22	43	52	1.04	0.59	0.85	1.06	0.79	0.91			
40th	20	42	50	1.09	0.53	0.85	0.98	0.68	0.86			
35th	17	40	48	1.14	0.53	0.88	0.90	0.58	0.81			
30th	15	38	45	1.14	0.46	0.85	0.81	0.46	0.76	1.46 (0.65)	1.16 (0.79)	1.11 (0.35)
25th	12	36	43	1.19	0.46	0.88	0.72	0.36	0.69			
20th	9	33	41	1.19	0.53	0.91	0.62	0.26	0.63			
15th	7	30	38	1.14	0.53	0.88	0.51	0.16	0.56			
10th	5	26	35	1.04	0.59	0.85	0.38	0.00	0.48			
5th	3	22	30	0.94	0.53	0.77	0.23	-0.13	0.39			
M	24.09	45.20	52.75	1.06	0.50	0.82	1.18	0.94	0.96			
SD	14.03	13.71	13.14	0.07	0.06	0.05	0.61	0.73	0.35			

**Note.** N (Fall, Winter, Spring) = 49051, 9658, 4444

earlyReading (English) Letter Names: 1 <sup>st</sup> Grade												
%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	66	77	-	0.55	-	-	2.58	-	-	-	-	-
90th	63	75	-	0.60	-	-	2.31	-	-			
85th	60	73	-	0.65	-	-	2.13	-	-			
80th	58	70	-	0.60	-	-	2.05	-	-	1.31 (0.52)	-	-
75th	55	68	-	0.65	-	-	1.88	-	-			
70th	53	67	-	0.70	-	-	1.69	-	-			
65th	51	65	-	0.70	-	-	1.63	-	-			
60th	49	62	-	0.65	-	-	1.53	-	-			
55th	47	60	-	0.65	-	-	1.43	-	-			
50th	46	59	-	0.65	-	-	1.30	-	-			
45th	44	57	-	0.65	-	-	1.13	-	-			
40th	42	55	-	0.65	-	-	1.07	-	-			
35th	40	53	-	0.65	-	-	0.97	-	-			
30th	39	51	-	0.60	-	-	0.87	-	-	1.55 (0.61)	-	-
25th	37	49	-	0.60	-	-	0.72	-	-			
20th	35	47	-	0.60	-	-	0.56	-	-			
15th	33	45	-	0.60	-	-	0.45	-	-			
10th	30	41	-	0.55	-	-	0.32	-	-			
5th	26	39	-	0.65	-	-	0.17	-	-			
M	45.97	58.57	-	0.62	-	-	1.31	-	-			
SD	12.08	11.95	-	0.04	-	-	0.73	-	-			

Note. N (Fall, Winter) = 1742, 196

**earlyReading (English) Letter Sounds: Kindergarten**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	26	54	65	1.39	0.73	1.11	2.26	2.18	1.66	1 (0.55)	0.24 (0.67)	0.77 (0.33)
90th	22	50	61	1.39	0.73	1.11	2.06	1.92	1.51			
85th	20	47	58	1.34	0.73	1.08	1.89	1.70	1.40			
80th	17	44	55	1.34	0.73	1.08	1.75	1.53	1.33	1.34 (0.57)	0.79 (0.6)	1.07 (0.34)
75th	15	42	53	1.34	0.73	1.08	1.63	1.38	1.25			
70th	13	40	51	1.34	0.73	1.08	1.52	1.26	1.19			
65th	11	38	49	1.34	0.73	1.08	1.42	1.14	1.13			
60th	10	36	47	1.29	0.73	1.05	1.33	1.03	1.06			
55th	8	34	46	1.29	0.79	1.08	1.24	0.94	1.01			
50th	7	32	44	1.24	0.79	1.05	1.16	0.85	0.96			
45th	6	30	42	1.19	0.79	1.02	1.07	0.76	0.90			
40th	5	28	41	1.14	0.86	1.02	0.99	0.66	0.84			
35th	4	26	39	1.09	0.86	0.99	0.91	0.57	0.79			
30th	3	25	37	1.09	0.79	0.96	0.83	0.48	0.73	1.11 (0.65)	1.14 (0.66)	1.07 (0.4)
25th	2	23	35	1.04	0.79	0.94	0.74	0.38	0.67			
20th	2	20	32	0.89	0.79	0.85	0.64	0.28	0.60			
15th	1	18	30	0.84	0.79	0.82	0.54	0.18	0.53			
10th	1	14	27	0.65	0.86	0.74	0.42	0.06	0.45			
5th	0	10	23	0.50	0.86	0.65	0.28	-0.12	0.34			
M	9.35	32.22	43.95	1.14	0.78	0.99	1.20	0.92	0.97			
SD	8.21	13.09	12.66	0.26	0.05	0.13	0.60	0.69	0.39			

Note. N (Fall, Winter, Spring) = 44352, 55299, 50000

**earlyReading (English) Letter Sounds: 1<sup>st</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	49	66	-	0.84	-	-	2.66	-	-	0.8 (0.5)		
90th	45	60	-	0.74	-	-	2.31	-	-			
85th	43	57	-	0.70	-	-	2.20	-	-			
80th	41	55	-	0.70	-	-	2.00	-	-	1.48 (0.54)		
75th	38	53	-	0.74	-	-	1.89	-	-			
70th	37	51	-	0.70	-	-	1.81	-	-			
65th	35	50	-	0.74	-	-	1.68	-	-			
60th	33	47	-	0.70	-	-	1.62	-	-			
55th	31	46	-	0.74	-	-	1.57	-	-			
50th	30	44	-	0.70	-	-	1.47	-	-			
45th	28	42	-	0.70	-	-	1.41	-	-			
40th	27	40	-	0.65	-	-	1.29	-	-			
35th	26	39	-	0.65	-	-	1.17	-	-			
30th	25	36	-	0.55	-	-	1.03	-	-	1.9 (1.1)		
25th	23	34	-	0.55	-	-	0.94	-	-			
20th	22	32	-	0.50	-	-	0.74	-	-			
15th	20	30	-	0.50	-	-	0.63	-	-			
10th	18	27	-	0.45	-	-	0.47	-	-			
5th	14	24	-	0.50	-	-	0.24	-	-			
M	30.79	43.92	-	0.65	-	-	1.44	-	-			
SD	10.24	12.53	-	0.11	-	-	0.70	-	-			

Note. N (Fall, Winter) = 2524, 287

**earlyReading (English) Rhyming: Kindergarten**

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	15	16	16	0.05	0.00	0.03	0.50	0.65	0.36	0.04 (0.06)	-0.01 (0.03)	0.03 (0.03)
90th	14	16	16	0.10	0.00	0.06	0.45	0.53	0.33			
85th	13	16	16	0.15	0.00	0.09	0.41	0.45	0.31			
80th	13	16	16	0.15	0.00	0.09	0.37	0.37	0.29	0.22 (0.13)	0.12 (0.09)	0.16 (0.07)
75th	12	16	16	0.20	0.00	0.11	0.33	0.32	0.28			
70th	11	15	16	0.20	0.07	0.14	0.30	0.28	0.26			
65th	10	15	16	0.25	0.07	0.17	0.27	0.25	0.24			
60th	10	15	15	0.25	0.00	0.14	0.25	0.20	0.22			
55th	9	14	15	0.25	0.07	0.17	0.22	0.17	0.20			
50th	8	14	15	0.30	0.07	0.20	0.20	0.15	0.18			
45th	7	13	14	0.30	0.07	0.20	0.17	0.10	0.16			
40th	6	13	14	0.35	0.07	0.23	0.14	0.09	0.14			
35th	5	12	14	0.35	0.13	0.26	0.12	0.07	0.13	0.32 (0.2)	0.36 (0.28)	0.25 (0.11)
30th	5	11	13	0.30	0.13	0.23	0.09	0.05	0.11			
25th	4	9	12	0.25	0.20	0.23	0.08	0.00	0.09			
20th	3	8	11	0.25	0.20	0.23	0.04	0.00	0.08			
15th	3	7	9	0.20	0.13	0.17	0.04	0.00	0.06			
10th	2	5	7	0.15	0.13	0.14	0.00	0.00	0.03			
5th	1	4	5	0.15	0.07	0.11	-0.01	-0.08	0.00			
M	7.88	12.23	13.27	0.22	0.07	0.16	0.21	0.20	0.18			
SD	4.56	4.15	3.55	0.08	0.07	0.06	0.16	0.22	0.10			

Note. N (Fall, Winter, Spring) = 3313, 5098, 2276

**earlyReading (English) Word Blending: Kindergarten**

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	8	10	10	0.10	0.00	0.06	0.56	0.60	0.30	0.11 (0.08)	0 (0.01)	0.05 (0.04)
90th	7	10	10	0.15	0.00	0.09	0.53	0.50	0.28			
85th	6	10	10	0.20	0.00	0.11	0.50	0.45	0.27			
80th	5	10	10	0.25	0.00	0.14	0.46	0.38	0.27	0.33 (0.18)	0.16 (0.11)	0.23 (0.05)
75th	4	10	10	0.30	0.00	0.17	0.43	0.31	0.27			
70th	3	9	10	0.30	0.07	0.20	0.39	0.26	0.26			
65th	3	9	10	0.30	0.07	0.20	0.37	0.22	0.25			
60th	2	8	10	0.30	0.13	0.23	0.33	0.19	0.24			
55th	1	8	10	0.35	0.13	0.26	0.31	0.16	0.22			
50th	1	7	10	0.30	0.20	0.26	0.27	0.12	0.21			
45th	0	7	10	0.35	0.20	0.28	0.24	0.10	0.20			
40th	0	6	9	0.30	0.20	0.26	0.21	0.07	0.19			
35th	0	5	9	0.25	0.26	0.26	0.17	0.05	0.17			
30th	0	4	9	0.20	0.33	0.26	0.15	0.00	0.15	NA	0.4 (0.26)	NA
25th	0	3	8	0.15	0.33	0.23	0.11	0.00	0.14			
20th	0	3	8	0.15	0.33	0.23	0.07	0.00	0.11			
15th	0	1	7	0.05	0.40	0.20	0.05	0.00	0.09			
10th	0	0	5	0.00	0.33	0.14	0.00	0.00	0.06			
5th	0	0	3	0.00	0.20	0.09	0.00	0.00	0.03			
M	2.22	6.34	8.63	0.21	0.17	0.19	0.27	0.19	0.19			
SD	2.79	3.48	2.27	0.11	0.14	0.07	0.18	0.20	0.08			

Note. N (Fall, Winter, Spring) = 915, 6822, 1930

**earlyReading (English) Word Blending: 1<sup>st</sup> Grade**

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	10	10	10	0.00	0.00	0.00	0.16	0.07	0.12	0 (0.01)	0 (0.01)	0 (0.00)
90th	10	10	10	0.00	0.00	0.00	0.12	0.07	0.09			
85th	10	10	10	0.00	0.00	0.00	0.11	0.06	0.09			
80th	10	10	10	0.00	0.00	0.00	0.10	0.06	0.06	0.06 (0.03)	0.04 (0.03)	0.04 (0.01)
75th	10	10	10	0.00	0.00	0.00	0.06	0.00	0.06			
70th	10	10	10	0.00	0.00	0.00	0.06	0.00	0.06			
65th	9	10	10	0.05	0.00	0.03	0.05	0.00	0.03			
60th	9	10	10	0.05	0.00	0.03	0.05	0.00	0.03			
55th	9	10	10	0.05	0.00	0.03	0.05	0.00	0.03			
50th	9	10	10	0.05	0.00	0.03	0.05	0.00	0.03			
45th	9	10	10	0.05	0.00	0.03	0.00	0.00	0.03			
40th	9	10	10	0.05	0.00	0.03	0.00	0.00	0.01			
35th	8	10	10	0.10	0.00	0.06	0.00	0.00	0.00	0.16 (0.09)	0.12 (0.08)	0.13 (0.06)
30th	8	9	10	0.05	0.07	0.06	0.00	0.00	0.00			
25th	7	9	10	0.10	0.07	0.09	0.00	0.00	0.00			
20th	7	9	9	0.10	0.00	0.06	0.00	0.00	0.00			
15th	7	9	9	0.10	0.00	0.06	0.00	0.00	0.00			
10th	6	8	9	0.10	0.07	0.09	0.00	0.00	0.00			
5th	5	7	9	0.10	0.13	0.11	0.00	0.00	0.00			
M	8.40	9.53	9.75	0.05	0.02	0.04	0.04	0.02	0.04			
SD	1.70	0.82	0.51	0.04	0.04	0.03	0.05	0.04	0.04			

Note. N (Fall, Winter, Spring) = 1413, 470, 203



earlyReading (English) Oral Repetition: Kindergarten



%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	35	36	38	0.02	0.18	0.09						
90th	34	33	36	-0.05	0.18	0.05						
85th	33	32	34	-0.05	0.13	0.03						
80th	33	31	33	-0.10	0.11	-0.01						
75th	31	30	31	-0.05	0.10	0.01						
70th	29	29	30	-0.02	0.13	0.04						
65th	28	28	29	0.00	0.10	0.04						
60th	27	27	29	0.00	0.10	0.04						
55th	25	25	28	0.01	0.16	0.08						
50th	23	25	27	0.07	0.15	0.11	Pending					
45th	21	24	26	0.15	0.13	0.14						
40th	19	23	25	0.20	0.13	0.17						
35th	16	23	24	0.35	0.07	0.23						
30th	14	22	23	0.37	0.11	0.26						
25th	12	20	22	0.40	0.14	0.28						
20th	10	18	21	0.41	0.19	0.31						
15th	7	14	20	0.38	0.35	0.37						
10th	2	11	18	0.45	0.45	0.45						
5th	0	11	15	0.53	0.30	0.43						
M	21	24	27	0.16	0.17	0.16						
SD	11	7	6	0.21	0.10	0.15						

Note. N (Fall, Winter) = 203, 54; - Reported values are within the validation phase.

earlyReading (English) Oral Repetition: 1<sup>st</sup> Grade 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	34	35	37	0.03	0.16	0.09						
90th	33	34	36	0.07	0.11	0.09						
85th	31	34	34	0.13	0.03	0.09						
80th	30	33	33	0.13	0.03	0.09						
75th	30	33	33	0.14	0.01	0.09						
70th	29	32	32	0.15	-0.01	0.09						
65th	28	32	31	0.19	-0.05	0.09						
60th	28	30	31	0.14	0.01	0.09						
55th	27	30	30	0.14	0.01	0.09						
50th	26	29	29	0.14	0.02	0.09		Pending				
45th	26	28	29	0.13	0.02	0.09						
40th	25	28	28	0.15	0.00	0.09						
35th	24	27	27	0.13	0.02	0.09						
30th	24	26	27	0.12	0.04	0.09						
25th	23	25	26	0.10	0.06	0.09						
20th	22	24	25	0.10	0.07	0.09						
15th	21	24	24	0.14	0.01	0.09						
10th	20	21	23	0.08	0.10	0.09						
5th	18	20	21	0.08	0.09	0.09						
M	26	29	29	0.12	0.04	0.09						
SD	4	4	4	0.04	0.05	0.00						

Note. N (Winter, Spring) = 53, 95;  - Reported values are within the validation phase.

**earlyReading (English) Word Segmenting: Kindergarten**

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	26	33	34	0.35	0.07	0.23	1.96	1.20	0.90	0.43 (0.2)	0.02 (0.1)	0.2 (0.1)
90th	23	32	34	0.45	0.13	0.31	1.87	1.00	0.86			
85th	19	31	33	0.60	0.13	0.40	1.79	0.84	0.79			
80th	18	31	33	0.65	0.13	0.43	1.68	0.71	0.76	1.5 (0.37)	0.21 (0.16)	0.6 (0.25)
75th	18	30	33	0.60	0.20	0.43	1.56	0.61	0.71			
70th	15	30	32	0.74	0.13	0.48	1.50	0.52	0.60			
65th	10	29	32	0.94	0.20	0.62	1.38	0.45	0.55			
60th	10	29	31	0.94	0.13	0.60	1.22	0.38	0.54			
55th	9	28	31	0.94	0.20	0.62	1.04	0.33	0.48			
50th	7	27	30	0.99	0.20	0.65	0.79	0.27	0.45			
45th	6	26	30	0.99	0.26	0.68	0.67	0.23	0.38			
40th	3	25	30	1.09	0.33	0.77	0.56	0.19	0.34			
35th	2	24	29	1.09	0.33	0.77	0.48	0.15	0.32			
30th	0	23	29	1.14	0.40	0.82	0.43	0.12	0.23	NA	0.77 (0.41)	NA
25th	0	21	28	1.04	0.46	0.79	0.36	0.07	0.22			
20th	0	19	27	0.94	0.53	0.77	0.23	0.06	0.17			
15th	0	15	26	0.74	0.73	0.74	0.14	0.00	0.10			
10th	0	12	24	0.60	0.79	0.68	0.00	0.00	0.06			
5th	0	9	21	0.45	0.79	0.60	0.00	-0.07	0.00			
M	9.02	24.62	29.54	0.80	0.32	0.60	0.93	0.38	0.45			
SD	9.00	7.47	4.19	0.25	0.23	0.17	0.68	0.39	0.28			

**Note.** N (Fall, Winter, Spring) = 353, 52733, 47645

earlyReading (English) Word Segmenting: 1<sup>st</sup> Grade

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	33	34	34	0.05	0.00	0.03	0.65	0.52	0.47	-0.01 (0.08)	-0.04 (0.07)	0.01 (0.04)
90th	32	34	34	0.10	0.00	0.06	0.53	0.41	0.38			
85th	32	34	34	0.10	0.00	0.06	0.45	0.33	0.32			
80th	31	34	34	0.15	0.00	0.09	0.40	0.28	0.28	0.14 (0.15)	0.06 (0.12)	0.11 (0.07)
75th	30	33	34	0.15	0.07	0.11	0.34	0.22	0.24			
70th	30	33	34	0.15	0.07	0.11	0.30	0.19	0.21			
65th	29	32	34	0.15	0.13	0.14	0.26	0.14	0.18			
60th	29	32	33	0.15	0.07	0.11	0.23	0.13	0.16			
55th	28	32	33	0.20	0.07	0.14	0.20	0.10	0.14			
50th	28	31	33	0.15	0.13	0.14	0.16	0.07	0.12			
45th	27	31	32	0.20	0.07	0.14	0.13	0.06	0.10			
40th	26	30	32	0.20	0.13	0.17	0.11	0.00	0.09			
35th	26	30	31	0.20	0.07	0.14	0.07	0.00	0.07			
30th	25	29	31	0.20	0.13	0.17	0.05	0.00	0.06	0.51 (0.27)	0.32 (0.25)	0.35 (0.14)
25th	24	28	30	0.20	0.13	0.17	0.00	0.00	0.03			
20th	22	28	30	0.30	0.13	0.23	0.00	0.00	0.02			
15th	21	27	29	0.30	0.13	0.23	0.00	-0.06	0.00			
10th	19	25	28	0.30	0.20	0.26	-0.06	-0.10	0.00			
5th	16	24	26	0.40	0.13	0.28	-0.12	-0.15	-0.04			
M	26.51	30.42	31.74	0.19	0.09	0.15	0.20	0.12	0.15			
SD	5.18	3.35	2.55	0.08	0.06	0.07	0.23	0.20	0.15			

Note. N (Fall, Winter, Spring) = 37470, 41651, 38179

earlyReading (English) Nonsense Words: Kindergarten

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	17	25	-	0.53	-	-	0.87	-	0.35 (0.37)		
90th	-	15	22	-	0.46	-	-	0.75	-			
85th	-	14	20	-	0.40	-	-	0.67	-			
80th	-	13	19	-	0.40	-	-	0.61	-	0.33 (0.24)		
75th	-	12	18	-	0.40	-	-	0.55	-			
70th	-	11	17	-	0.40	-	-	0.50	-			
65th	-	11	16	-	0.33	-	-	0.46	-			
60th	-	10	15	-	0.33	-	-	0.42	-			
55th	-	9	14	-	0.33	-	-	0.38	-			
50th	-	8	13	-	0.33	-	-	0.34	-			
45th	-	8	13	-	0.33	-	-	0.30	-			
40th	-	7	12	-	0.33	-	-	0.26	-			
35th	-	6	11	-	0.33	-	-	0.21	-	0.39 (0.25)		
30th	-	6	11	-	0.33	-	-	0.19	-			
25th	-	5	10	-	0.33	-	-	0.14	-			
20th	-	4	9	-	0.33	-	-	0.11	-			
15th	-	3	8	-	0.33	-	-	0.06	-			
10th	-	2	7	-	0.33	-	-	0.00	-			
5th	-	1	5	-	0.26	-	-	-0.06	-			
M	-	8.57	14.01	-	0.36	-	-	0.36	-			
SD	-	4.82	5.95	-	0.06	-	-	0.28	-			

Note. N (Winter, Spring) = 41091, 40186

**earlyReading (English) Nonsense Words: 1<sup>st</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	23	38	46	0.74	0.53	0.65	0.99	1.05	0.87	0.54 (0.4)	0.36 (0.44)	0.5 (0.25)
90th	19	33	42	0.70	0.59	0.65	0.87	0.91	0.78			
85th	17	29	38	0.60	0.59	0.60	0.77	0.81	0.70			
80th	16	26	35	0.50	0.59	0.54	0.69	0.71	0.64	0.39 (0.29)	0.38 (0.38)	0.39 (0.22)
75th	14	24	32	0.50	0.53	0.51	0.63	0.64	0.59			
70th	13	22	30	0.45	0.53	0.48	0.57	0.57	0.54			
65th	12	20	28	0.40	0.53	0.45	0.52	0.51	0.51			
60th	11	19	26	0.40	0.46	0.43	0.47	0.45	0.46			
55th	11	18	24	0.35	0.40	0.37	0.43	0.40	0.43			
50th	10	17	23	0.35	0.40	0.37	0.39	0.35	0.40			
45th	9	16	21	0.35	0.33	0.34	0.35	0.30	0.36			
40th	9	15	20	0.30	0.33	0.31	0.32	0.25	0.33			
35th	8	14	19	0.30	0.33	0.31	0.28	0.20	0.30			
30th	7	13	17	0.30	0.26	0.28	0.24	0.14	0.27	0.02 (0.01)	0.38 (0.3)	0.37 (0.18)
25th	6	12	16	0.30	0.26	0.28	0.20	0.10	0.23			
20th	6	11	15	0.25	0.26	0.26	0.16	0.06	0.20			
15th	5	10	14	0.25	0.26	0.26	0.11	0.00	0.16			
10th	4	9	12	0.25	0.20	0.23	0.06	-0.07	0.12			
5th	2	8	10	0.30	0.13	0.23	0.00	-0.19	0.07			
M	10.87	18.98	24.88	0.40	0.40	0.40	0.43	0.38	0.42			
SD	6.13	9.03	10.85	0.15	0.15	0.14	0.30	0.36	0.24			

Note. N (Fall, Winter, Spring) = 33630, 37208, 35126

earlyReading (English) Decodable Words: Kindergarten

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	3	18	38	0.74	1.32	0.99	0.68	1.36	1.08	0.38 (0.3)	1.05 (0.73)	0.56 (0.35)
90th	2	14	30	0.60	1.06	0.79	0.60	1.10	0.83			
85th	1	12	26	0.55	0.92	0.71	0.51	0.93	0.78			
80th	1	11	22	0.50	0.73	0.60	0.45	0.81	0.71	0.26 (0.22)	0.58 (0.4)	0.42 (0.23)
75th	0	9	19	0.45	0.66	0.54	0.41	0.72	0.66			
70th	0	8	17	0.40	0.59	0.48	0.36	0.64	0.62			
65th	0	7	16	0.35	0.59	0.45	0.33	0.58	0.55			
60th	0	7	14	0.35	0.46	0.40	0.28	0.51	0.51			
55th	0	6	13	0.30	0.46	0.37	0.23	0.47	0.44			
50th	0	5	12	0.25	0.46	0.34	0.21	0.42	0.40			
45th	0	4	11	0.20	0.46	0.31	0.16	0.37	0.36			
40th	0	3	10	0.15	0.46	0.28	0.11	0.32	0.32			
35th	0	3	9	0.15	0.40	0.26	0.10	0.28	0.31			
30th	0	2	8	0.10	0.40	0.23	0.06	0.23	0.29	NA	0.31 (0.28)	NA
25th	0	1	7	0.05	0.40	0.20	0.05	0.19	0.26			
20th	0	1	5	0.05	0.26	0.14	0.02	0.12	0.23			
15th	0	1	4	0.05	0.20	0.11	0.00	0.06	0.20			
10th	0	0	3	0.00	0.20	0.09	0.00	0.00	0.08			
5th	0	0	1	0.00	0.07	0.03	0.00	0.00	0.01			
M	0.37	6.25	14.39	0.27	0.53	0.38	0.25	0.50	0.46			
SD	0.80	5.83	10.77	0.22	0.31	0.25	0.23	0.41	0.29			

Note. N (Fall, Winter, Spring) = 148, 8712, 7920

earlyReading (English) Decodable Words: 1<sup>st</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	36	55	67	0.94	0.79	0.88	1.50	2.00	1.22	0.85 (0.56)	0.82 (0.88)	0.77 (0.35)
90th	28	49	60	1.04	0.73	0.91	1.31	1.64	1.09			
85th	22	44	55	1.09	0.73	0.94	1.16	1.42	1.02			
80th	18	39	50	1.04	0.73	0.91	1.04	1.29	0.94	0.7 (0.44)	1.1 (0.76)	0.75 (0.34)
75th	15	34	48	0.94	0.92	0.94	0.94	1.15	0.88			
70th	13	31	46	0.89	0.99	0.94	0.85	1.01	0.83			
65th	12	27	42	0.74	0.99	0.85	0.77	0.91	0.77			
60th	10	25	39	0.74	0.92	0.82	0.70	0.84	0.72			
55th	9	22	36	0.65	0.92	0.77	0.64	0.78	0.66			
50th	8	20	33	0.60	0.86	0.71	0.58	0.71	0.62			
45th	7	19	30	0.60	0.73	0.65	0.52	0.62	0.57			
40th	6	17	28	0.55	0.73	0.62	0.46	0.55	0.53			
35th	5	15	25	0.50	0.66	0.57	0.41	0.48	0.48	0.45 (0.3)	0.66 (0.51)	0.53 (0.3)
30th	5	14	23	0.45	0.59	0.51	0.36	0.40	0.44			
25th	4	13	20	0.45	0.46	0.45	0.30	0.34	0.39			
20th	3	11	18	0.40	0.46	0.43	0.25	0.27	0.35			
15th	2	9	16	0.35	0.46	0.40	0.19	0.19	0.31			
10th	1	8	13	0.35	0.33	0.34	0.12	0.11	0.25			
5th	1	6	10	0.25	0.26	0.26	0.06	0.00	0.20			
M	11.39	24.53	35.03	0.66	0.70	0.68	0.65	0.79	0.65			
SD	10.57	15.37	17.56	0.27	0.22	0.23	0.44	0.58	0.32			

Note. N (Fall, Winter, Spring) = 5918, 6237, 4573



**earlyReading (English) Sight Words: Kindergarten**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	53	67	-	0.92	-	-	2.93	-	-	1.49 (1.11)	-
90th	-	47	60	-	0.86	-	-	2.59	-			
85th	-	39	54	-	0.99	-	-	2.33	-			
80th	-	32	50	-	1.19	-	-	2.09	-	-	1.6 (0.93)	-
75th	-	26	47	-	1.39	-	-	1.90	-			
70th	-	22	42	-	1.32	-	-	1.72	-			
65th	-	18	38	-	1.32	-	-	1.56	-			
60th	-	15	33	-	1.19	-	-	1.40	-			
55th	-	13	30	-	1.12	-	-	1.26	-			
50th	-	11	26	-	0.99	-	-	1.11	-			
45th	-	10	23	-	0.86	-	-	1.00	-			
40th	-	9	20	-	0.73	-	-	0.86	-			
35th	-	8	17	-	0.59	-	-	0.75	-			
30th	-	7	14	-	0.46	-	-	0.63	-	-	0.69 (0.55)	-
25th	-	6	12	-	0.40	-	-	0.51	-			
20th	-	5	10	-	0.33	-	-	0.41	-			
15th	-	4	8	-	0.26	-	-	0.30	-			
10th	-	3	5	-	0.13	-	-	0.18	-			
5th	-	2	3	-	0.07	-	-	0.08	-			
M	-	18.03	29.78	-	0.80	-	-	1.27	-			
SD	-	16.48	20.43	-	0.42	-	-	0.89	-			

Note. N (Winter, Spring) = 5119, 47682

earlyReading (English) Sight Words: 1 <sup>st</sup> Grade												
	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
%ile	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	63	86	99	1.14	0.86	1.02	2.44	2.36	1.95	0.86 (0.62)	0.44 (0.67)	0.75 (0.36)
90th	57	80	94	1.14	0.92	1.05	2.24	2.09	1.80			
85th	52	76	90	1.19	0.92	1.08	2.09	1.88	1.69			
80th	49	72	86	1.14	0.92	1.05	1.95	1.71	1.59	1.55 (0.57)	1.05 (0.63)	1.31 (0.38)
75th	45	69	83	1.19	0.92	1.08	1.83	1.58	1.51			
70th	40	66	80	1.29	0.92	1.13	1.72	1.43	1.44			
65th	35	63	77	1.39	0.92	1.19	1.61	1.32	1.37			
60th	31	60	75	1.44	0.99	1.25	1.51	1.20	1.31			
55th	26	57	72	1.54	0.99	1.30	1.41	1.10	1.24			
50th	23	54	70	1.54	1.06	1.33	1.32	1.00	1.17			
45th	19	51	68	1.59	1.12	1.39	1.22	0.92	1.10			
40th	16	49	65	1.64	1.06	1.39	1.12	0.82	1.04			
35th	13	47	63	1.69	1.06	1.42	1.03	0.72	0.97			
30th	11	43	60	1.59	1.12	1.39	0.92	0.61	0.90	1.22 (0.72)	1.42 (0.71)	1.3 (0.49)
25th	9	38	57	1.44	1.25	1.36	0.81	0.50	0.82			
20th	7	34	53	1.34	1.25	1.30	0.69	0.38	0.73			
15th	6	29	49	1.14	1.32	1.22	0.56	0.26	0.63			
10th	4	23	45	0.94	1.45	1.16	0.42	0.12	0.53			
5th	3	16	37	0.65	1.39	0.96	0.26	-0.09	0.40			
M	27.22	53.12	69.30	1.32	1.08	1.21	1.33	1.05	1.17			
SD	20.05	20.78	18.09	0.27	0.18	0.15	0.66	0.73	0.46			

Note. N (Fall, Winter, Spring) = 37287, 41737, 38521

earlyReading (English) Sentence Reading: 1<sup>st</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	75	-	-	-	-	-	-	-	-	-	-	-
90th	65	-	-	-	-	-	-	-				
85th	56	-	-	-	-	-	-	-				
80th	45	-	-	-	-	-	-	-	-	-	-	
75th	38	-	-	-	-	-	-	-				
70th	31	-	-	-	-	-	-	-				
65th	26	-	-	-	-	-	-	-				
60th	22	-	-	-	-	-	-	-				
55th	19	-	-	-	-	-	-	-				
50th	17	-	-	-	-	-	-	-				
45th	15	-	-	-	-	-	-	-				
40th	14	-	-	-	-	-	-	-				
35th	12	-	-	-	-	-	-	-				
30th	11	-	-	-	-	-	-	-	-	-	-	
25th	10	-	-	-	-	-	-	-				
20th	9	-	-	-	-	-	-	-				
15th	7	-	-	-	-	-	-	-				
10th	6	-	-	-	-	-	-	-				
5th	4	-	-	-	-	-	-	-				
M	26.30	-	-	-	-	-	-	-				
SD	22.29	-	-	-	-	-	-	-				

Note. N (Fall) = 37213

**earlyReading (English) Composite: Kindergarten**

%ile	Scores (Scaled Score)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	43	70	86	1.34	1.10	1.24	1.68	2.28	1.48	1.07 (0.37)	1.59 (0.62)	1.21 (0.3)
90th	41	67	82	1.26	1.05	1.17	1.54	2.01	1.38			
85th	40	64	80	1.21	1.02	1.13	1.44	1.83	1.31			
80th	39	63	78	1.17	1.00	1.10	1.35	1.68	1.25	1.03 (0.33)	1.24 (0.48)	1.03 (0.22)
75th	38	61	76	1.14	0.97	1.07	1.29	1.57	1.20			
70th	38	60	74	1.11	0.96	1.04	1.22	1.47	1.16			
65th	37	59	73	1.08	0.94	1.02	1.17	1.38	1.12			
60th	36	57	71	1.05	0.92	0.99	1.11	1.31	1.08			
55th	36	56	70	1.02	0.91	0.97	1.05	1.23	1.04			
50th	35	55	69	1.00	0.89	0.95	1.00	1.17	1.02			
45th	35	54	67	0.97	0.87	0.93	0.95	1.10	0.98			
40th	34	53	66	0.94	0.86	0.91	0.90	1.05	0.95			
35th	33	52	65	0.92	0.84	0.88	0.84	0.99	0.92	0.92 (0.39)	1.16 (0.47)	0.94 (0.23)
30th	33	51	63	0.89	0.82	0.86	0.80	0.93	0.88			
25th	32	49	61	0.86	0.81	0.83	0.74	0.87	0.85			
20th	31	48	60	0.82	0.78	0.81	0.68	0.81	0.80			
15th	30	46	58	0.78	0.76	0.77	0.62	0.74	0.76			
10th	29	44	55	0.73	0.73	0.73	0.55	0.66	0.71			
5th	28	41	51	0.65	0.68	0.67	0.46	0.57	0.65			
M	35.17	55.23	68.71	1.00	0.89	0.95	1.02	1.26	1.03			
SD	4.44	8.49	10.33	0.17	0.10	0.14	0.37	0.51	0.25			

Note. N (Fall, Winter, Spring) = 5656, 8945, 9491

**earlyReading (English) Composite: 1<sup>st</sup> Grade**

%ile	Scores (Scaled Score)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	53	69	81	0.78	0.78	0.78	1.32	1.88	1.08	0.8 (0.35)	0.77 (0.58)	0.71 (0.21)
90th	50	65	76	0.73	0.73	0.73	1.18	1.60	0.99			
85th	48	62	73	0.69	0.70	0.69	1.07	1.36	0.92			
80th	47	60	70	0.66	0.67	0.67	0.99	1.17	0.87	0.71 (0.3)	0.87 (0.57)	0.7 (0.24)
75th	45	58	68	0.63	0.65	0.64	0.92	1.05	0.82			
70th	44	57	66	0.61	0.63	0.62	0.86	0.93	0.78			
65th	43	55	64	0.59	0.61	0.60	0.80	0.84	0.74			
60th	42	54	63	0.57	0.60	0.58	0.74	0.75	0.71			
55th	41	52	61	0.55	0.58	0.56	0.69	0.68	0.68			
50th	40	51	59	0.53	0.56	0.55	0.64	0.62	0.64			
45th	39	49	58	0.52	0.55	0.53	0.59	0.57	0.61			
40th	38	48	56	0.50	0.53	0.51	0.55	0.52	0.57			
35th	37	47	54	0.48	0.51	0.49	0.50	0.46	0.53	0.34 (0.23)	0.58 (0.45)	0.42 (0.24)
30th	36	45	52	0.46	0.49	0.47	0.46	0.40	0.49			
25th	35	43	51	0.43	0.47	0.45	0.41	0.35	0.45			
20th	33	42	48	0.41	0.45	0.43	0.35	0.30	0.40			
15th	32	39	46	0.38	0.42	0.40	0.29	0.23	0.36			
10th	30	37	43	0.34	0.39	0.36	0.23	0.17	0.30			
5th	27	33	38	0.29	0.34	0.31	0.16	0.09	0.22			
M	40.03	50.79	59.29	0.53	0.56	0.55	0.68	0.75	0.64			
SD	7.72	10.62	12.55	0.12	0.11	0.12	0.35	0.54	0.25			

**Note.** N (Fall, Winter, Spring) = 4786, 5958, 5940

earlyReading Spanish Norms

earlyReading (Spanish) Concepts of Print: Kindergarten 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	12	-	-	-	-	-	-	-	-	-	-	-
90th	11	-	-	-	-	-	-	-	-			
85th	11	-	-	-	-	-	-	-	-			
80th	10	-	-	-	-	-	-	-	-	-	-	-
75th	10	-	-	-	-	-	-	-	-			
70th	10	-	-	-	-	-	-	-	-			
65th	9	-	-	-	-	-	-	-	-			
60th	9	-	-	-	-	-	-	-	-			
55th	9	-	-	-	-	-	-	-	-			
50th	9	-	-	-	-	-	-	-	-			
45th	8	-	-	-	-	-	-	-	-			
40th	8	-	-	-	-	-	-	-	-			
35th	8	-	-	-	-	-	-	-	-			
30th	7	-	-	-	-	-	-	-	-	-	-	-
25th	7	-	-	-	-	-	-	-	-			
20th	6	-	-	-	-	-	-	-	-			
15th	6	-	-	-	-	-	-	-	-			
10th	4	-	-	-	-	-	-	-	-			
5th	3	-	-	-	-	-	-	-	-			
M	8.26	-	-	-	-	-	-	-	-			
SD	2.35	-	-	-	-	-	-	-	-			

Note. N (Fall) = 231;  - Reported values are within the validation phase.

earlyReading (Spanish) Onset Sounds: Kindergarten 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	16	16	16	0.00	0.00	0.00	0.91	0.63	NA	-0.03 (0.07)	0.00 (0)	0.00 (0)
90th	16	16	16	0.00	0.00	0.00	0.78	0.55	NA			
85th	15	16	16	0.05	0.00	0.03	0.70	0.49	NA			
80th	14	16	16	0.10	0.00	0.06	0.62	0.44	NA	0.16 (0.13)	0.21 (0.11)	0.00 (0)
75th	14	16	16	0.10	0.00	0.06	0.56	0.35	NA			
70th	13	15	16	0.10	0.07	0.09	0.53	0.31	NA			
65th	13	15	16	0.10	0.07	0.09	0.44	0.24	NA			
60th	12	15	16	0.15	0.07	0.11	0.40	0.22	NA			
55th	12	15	16	0.15	0.07	0.11	0.36	0.21	NA			
50th	11	14	16	0.15	0.13	0.14	0.33	0.20	NA			
45th	11	14	16	0.15	0.13	0.14	0.27	0.16	NA			
40th	10	13	15	0.15	0.13	0.14	0.23	0.12	NA			
35th	10	13	15	0.15	0.13	0.14	0.19	0.10	NA			
30th	9	12	15	0.15	0.20	0.17	0.17	0.04	NA	0.4 (0.25)	0.54 (0.35)	0.00 (0)
25th	8	11	15	0.15	0.26	0.20	0.12	0.00	NA			
20th	7	10	15	0.15	0.33	0.23	0.06	0.00	NA			
15th	5	9	14	0.20	0.33	0.26	0.00	0.00	NA			
10th	4	8	13	0.20	0.33	0.26	0.00	0.00	NA			
5th	2	7	11	0.25	0.26	0.26	-0.06	0.00	NA			
M	10.54	13.06	15.12	0.13	0.13	0.13	0.35	0.22	NA			
SD	4.15	3.18	1.62	0.06	0.12	0.08	0.29	0.22	NA			

**Note.** N (Fall, Winter, Spring) = 232, 638, 57;  - Reported values are within the validation phase.

earlyReading (Spanish) Letter Names: Kindergarten 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	35	45	55	0.51	0.66	0.58	NA	2.68	NA	NA	0.78 (0.93)	NA
90th	29	41	49	0.60	0.51	0.56	NA	2.14	NA			
85th	25	38	45	0.65	0.46	0.57	NA	1.81	NA			
80th	22	34	43	0.62	0.59	0.61	NA	1.64	NA	NA	0.9 (0.8)	NA
75th	18	31	39	0.63	0.53	0.59	NA	1.50	NA			
70th	16	29	38	0.65	0.59	0.62	NA	1.27	NA			
65th	13	27	35	0.69	0.53	0.62	NA	1.20	NA			
60th	11	26	33	0.74	0.46	0.62	NA	1.07	NA			
55th	11	24	31	0.65	0.46	0.57	NA	1.00	NA			
50th	10	23	30	0.67	0.46	0.58	NA	0.92	NA			
45th	8	22	28	0.69	0.40	0.56	NA	0.80	NA			
40th	7	20	27	0.65	0.46	0.57	NA	0.69	NA			
35th	6	19	26	0.65	0.43	0.55	NA	0.66	NA			
30th	5	18	24	0.65	0.40	0.54	NA	0.63	NA	NA	0.96 (0.61)	NA
25th	4	16	22	0.60	0.41	0.52	NA	0.58	NA			
20th	3	14	20	0.53	0.40	0.47	NA	0.45	NA			
15th	3	13	19	0.50	0.40	0.45	NA	0.35	NA			
10th	3	11.5	17	0.44	0.36	0.41	NA	0.24	NA			
5th	2	9	14	0.35	0.33	0.34	NA	0.17	NA			
M	12.12	24.24	31.29	0.60	0.47	0.54	NA	0.92	NA			
SD	9.60	10.17	11.29	0.10	0.09	0.08	NA	0.71	NA			

**Note.** N (Fall, Winter, Spring) = 66, 634, 312;  - Reported values are within the validation phase.




earlyReading (Spanish) Letter Sounds: Kindergarten 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	24	45	58	1.04	0.86	0.96	2.71	2.02	1.42	1.12 (0.7)	0.64 (0.65)	0.69 (0.41)
90th	20	41	54	1.04	0.86	0.96	2.31	1.71	1.28			
85th	19	39	50	0.99	0.73	0.88	2.07	1.43	1.16			
80th	17	36	47	0.94	0.73	0.85	1.89	1.35	1.10	1.25 (0.62)	1.17 (0.84)	0.98 (0.37)
75th	15	33	45	0.89	0.79	0.85	1.73	1.27	1.04			
70th	14	31	43	0.84	0.79	0.82	1.62	1.17	0.97			
65th	13	29	40	0.77	0.73	0.75	1.48	1.08	0.92			
60th	13	28	39	0.75	0.73	0.74	1.32	0.99	0.88			
55th	12	26	37	0.70	0.73	0.71	1.18	0.87	0.84			
50th	11	25	35	0.70	0.66	0.68	1.09	0.75	0.77			
45th	10	24	33	0.70	0.59	0.65	0.99	0.69	0.71			
40th	9	23	32	0.70	0.59	0.65	0.90	0.61	0.68			
35th	8	21	30	0.65	0.59	0.62	0.80	0.50	0.57	1.37 (1.34)	1.18 (0.76)	0.98 (0.39)
30th	7	20	28	0.65	0.53	0.60	0.72	0.41	0.41			
25th	6	19	26	0.65	0.46	0.57	0.67	0.31	0.51			
20th	5	17	24	0.60	0.46	0.54	0.58	0.25	0.46			
15th	4	16	22	0.60	0.40	0.51	0.48	0.14	0.40			
10th	3	14	19	0.55	0.33	0.45	0.37	0.0	0.32			
5th	2	11	16	0.45	0.33	0.40	0.18	-0.21	0.23			
M	11.17	26.21	35.68	0.75	0.63	0.69	1.24	1.10	0.82			
SD	6.10	9.47	11.87	0.17	0.17	0.16	0.75	0.79	0.65			

Note. N (Fall, Winter, Spring) = 232, 840, 633;  - Reported values are within the validation phase.

earlyReading (Spanish) Letter Sounds: 1<sup>st</sup> Grade 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	39	-	-	0.84	-	-	-	-	-	-	-	-
90th	38	-	-	0.74	-	-	-	-				
85th	37	-	-	0.70	-	-	-	-				
80th	35	-	-	0.70	-	-	-	-	-	-	-	-
75th	33	-	-	0.74	-	-	-	-				
70th	31	-	-	0.70	-	-	-	-				
65th	29	-	-	0.74	-	-	-	-				
60th	27	-	-	0.70	-	-	-	-				
55th	25	-	-	0.74	-	-	-	-				
50th	25	-	-	0.70	-	-	-	-				
45th	24	-	-	0.70	-	-	-	-				
40th	22	-	-	0.65	-	-	-	-				
35th	19	-	-	0.65	-	-	-	-				
30th	17	-	-	0.55	-	-	-	-	-	-	-	
25th	14	-	-	0.55	-	-	-	-				
20th	13	-	-	0.50	-	-	-	-				
15th	12	-	-	0.50	-	-	-	-				
10th	10	-	-	0.45	-	-	-	-				
5th	9	-	-	0.50	-	-	-	-				
M	24.20	-	-	0.65	-	-	-	-				
SD	9.80	-	-	0.11	-	-	-	-				

**Note.** N (Fall) = 63;  - Reported values are within the validation phase.

earlyReading (Spanish) Rhyming: Kindergarten 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	13	16	16	0.15	0.00	0.09	NA	0.44	NA	NA	0.00 (0.00)	NA
90th	12	16	16	0.20	0.00	0.11	NA	0.35	NA			
85th	12	16	16	0.20	0.00	0.11	NA	0.33	NA			
80th	12	15	16	0.15	0.07	0.11	NA	0.26	NA	NA	0.07 (0.1)	NA
75th	11	15	16	0.20	0.07	0.14	NA	0.25	NA			
70th	11	15	16	0.22	0.07	0.16	NA	0.22	NA			
65th	10	15	16	0.25	0.07	0.17	NA	0.18	NA			
60th	9	15	16	0.30	0.07	0.20	NA	0.13	NA			
55th	9	15	15	0.30	0.00	0.17	NA	0.13	NA			
50th	9	15	15	0.32	0.00	0.18	NA	0.12	NA			
45th	8	14	15	0.30	0.07	0.20	NA	0.11	NA			
40th	8	14	15	0.30	0.04	0.19	NA	0.11	NA			
35th	7	13	14	0.30	0.07	0.20	NA	0.10	NA	NA	0.22 (0.23)	NA
30th	7	13	14	0.32	0.07	0.21	NA	0.00	NA			
25th	6	12	14	0.30	0.13	0.23	NA	0.00	NA			
20th	6	11	13	0.25	0.13	0.20	NA	0.00	NA			
15th	5	11	13	0.30	0.13	0.23	NA	0.00	NA			
10th	5	10	11	0.27	0.07	0.18	NA	0.00	NA			
5th	2	9	10	0.35	0.07	0.23	NA	-0.11	NA			
M	8.42	13.68	14.56	0.26	0.06	0.17	NA	0.09	NA			
SD	2.98	2.14	1.77	0.06	0.04	0.04	NA	0.14	NA			

Note. N (Fall, Winter, Spring) = 64, 237, 188;  - Reported values are within the validation phase.


earlyReading (Spanish) Word Blending: Kindergarten 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	8	10	10	0.10	0.00	0.06	NA	0.46	NA	NA	0 (0.11)	NA
90th	7	10	10	0.15	0.00	0.09	NA	0.35	NA			
85th	6	10	10	0.20	0.00	0.11	NA	0.33	NA			
80th	5	10	10	0.25	0.00	0.14	NA	0.24	NA	NA	0.14 (0.16)	NA
75th	4	10	10	0.30	0.00	0.17	NA	0.22	NA			
70th	3	9	10	0.30	0.07	0.20	NA	0.22	NA			
65th	3	9	10	0.30	0.07	0.20	NA	0.12	NA			
60th	2	8	10	0.30	0.13	0.23	NA	0.11	NA			
55th	1	8	10	0.35	0.13	0.26	NA	0.11	NA			
50th	1	7	10	0.30	0.20	0.26	NA	0.00	NA			
45th	0	7	10	0.35	0.20	0.28	NA	0.00	NA			
40th	0	6	9	0.30	0.20	0.26	NA	0.00	NA			
35th	0	5	9	0.25	0.26	0.26	NA	0.00	NA			
30th	0	4	9	0.20	0.33	0.26	NA	0.00	NA	NA	0.2 (0.31)	NA
25th	0	3	8	0.15	0.33	0.23	NA	0.00	NA			
20th	0	3	8	0.15	0.33	0.23	NA	0.00	NA			
15th	0	1	7	0.05	0.40	0.20	NA	0.00	NA			
10th	0	0	5	0.00	0.33	0.14	NA	-0.11	NA			
5th	0	0	3	0.00	0.20	0.09	NA	-0.13	NA			
M	2.22	6.34	8.63	0.21	0.17	0.19	NA	0.10	NA			
SD	2.79	3.48	2.27	0.11	0.14	0.07	NA	0.18	NA			

Note. N (Winter, Spring) = 246, 62;  - Reported values are within the validation phase.


earlyReading (Spanish) Oral Repetition: Kindergarten 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	26	27	26	0.05	-0.02	0.02						
90th	23	25	25	0.06	0.00	0.04						
85th	22	23	24	0.07	0.01	0.05						
80th	21	22	23	0.08	0.02	0.06						
75th	20	22	22	0.09	0.03	0.06						
70th	19	21	21	0.09	0.04	0.07						
65th	18	20	21	0.10	0.05	0.08						
60th	17	19	20	0.10	0.05	0.08						
55th	17	19	20	0.11	0.06	0.09						
50th	16	18	19	0.11	0.07	0.09	<i>Pending</i>					
45th	15	17	18	0.12	0.07	0.10						
40th	14	17	18	0.12	0.08	0.10						
35th	13	16	17	0.13	0.09	0.11						
30th	13	15	17	0.13	0.09	0.11						
25th	12	14	16	0.14	0.10	0.12						
20th	11	14	15	0.14	0.11	0.13						
15th	10	13	14	0.15	0.12	0.14						
10th	8	11	13	0.16	0.13	0.15						
5th	6	9	12	0.17	0.15	0.16						
M	16	18	19	0.11	0.07	0.09						
SD	6	5	4	0.03	0.04	0.04						

**Note.** N (Spring) = 97;  - Reported values are within the validation phase.

earlyReading (Spanish) Oral Repetition: 1<sup>st</sup> Grade 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	24	26	26	0.10	0.00	0.06						
90th	23	25	25	0.10	0.00	0.06						
85th	22	24	24	0.10	0.00	0.06						
80th	22	24	24	0.10	0.00	0.06						
75th	21	23	23	0.10	0.00	0.06						
70th	21	23	23	0.10	0.00	0.06						
65th	20	22	22	0.10	0.00	0.06						
60th	20	22	22	0.10	0.00	0.06						
55th	19	21	21	0.10	0.00	0.06						
50th	19	21	21	0.10	0.00	0.06	<i>Pending</i>					
45th	19	21	21	0.10	0.00	0.06						
40th	18	20	20	0.10	0.00	0.06						
35th	18	20	20	0.10	0.00	0.06						
30th	17	19	19	0.10	0.00	0.06						
25th	17	19	19	0.10	0.00	0.06						
20th	16	18	18	0.10	0.00	0.06						
15th	16	18	18	0.10	0.00	0.06						
10th	15	17	17	0.10	0.00	0.06						
5th	14	16	16	0.10	0.00	0.06						
M	19	21	21	0.10	0.00	0.06						
SD	3	3	3	0.00	0.00	0.00						

**Note.** N= NA;  - Reported values are within the validation phase.

earlyReading (Spanish) Word Segmenting: Kindergarten 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	26	34	35	0.40	0.07	0.26	NA	1.48	NA	NA	-0.01 (0.16)	NA
90th	22	33	35	0.53	0.13	0.36	NA	1.38	NA			
85th	19	32	35	0.64	0.20	0.45	NA	1.19	NA			
80th	14	31	35	0.82	0.26	0.58	NA	1.11	NA	NA	0.51 (0.41)	NA
75th	14	29	35	0.74	0.40	0.60	NA	1.02	NA			
70th	10	28	34	0.89	0.40	0.68	NA	0.93	NA			
65th	9	27	34	0.89	0.46	0.71	NA	0.86	NA			
60th	8	24	33	0.82	0.57	0.71	NA	0.73	NA			
55th	6	23	32	0.84	0.59	0.74	NA	0.56	NA			
50th	5	20	32	0.74	0.79	0.77	NA	0.45	NA			
45th	4	19	31	0.74	0.79	0.77	NA	0.41	NA			
40th	3	16	30	0.65	0.92	0.77	NA	0.31	NA			
35th	2	14	28	0.60	0.92	0.74	NA	0.24	NA			
30th	2	12	27	0.50	0.99	0.71	NA	0.19	NA	NA	1 (0.59)	NA
25th	2	10	26	0.40	1.06	0.68	NA	0.06	NA			
20th	2	8	24	0.30	1.06	0.62	NA	0.02	NA			
15th	2	6	22	0.20	1.06	0.57	NA	0.00	NA			
10th	1	5	18	0.20	0.86	0.48	NA	-0.06	NA			
5th	0	2	14	0.11	0.78	0.40	NA	-0.17	NA			
M	7.98	19.66	29.47	0.58	0.65	0.61	NA	0.57	NA			
SD	7.74	10.41	6.23	0.25	0.33	0.15	NA	0.53	NA			

Note. N (Fall, Winter, Spring) = 62, 483, 515;  - Reported values are within the validation phase.

earlyReading (Spanish) Word Segmenting: 1<sup>st</sup> Grade 

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	35	35	35	0.00	0.00	0.00	0.83	0.43	0.39	-0.02 (0.05)	-0.06 (0.08)	-0.04 (0.05)
90th	35	35	35	0.00	0.00	0.00	0.65	0.35	0.34			
85th	35	35	35	0.00	0.00	0.00	0.52	0.29	0.29			
80th	34	34	35	0.00	0.07	0.03	0.44	0.24	0.25	0.05 (0.17)	0.02 (0.18)	0.03 (0.08)
75th	34	34	35	0.00	0.07	0.03	0.35	0.18	0.17			
70th	33	33	35	0.00	0.13	0.06	0.32	0.12	0.13			
65th	33	33	34	0.00	0.07	0.03	0.26	0.12	0.10			
60th	32	33	34	0.03	0.09	0.06	0.20	0.06	0.09			
55th	32	32	34	0.00	0.13	0.06	0.19	0.06	0.08			
50th	31	30	34	-0.05	0.26	0.09	0.14	0.00	0.06			
45th	30	29	33	-0.06	0.26	0.08	0.09	0.00	0.03			
40th	29	28	32	-0.03	0.24	0.09	0.06	0.00	0.03			
35th	28	27	32	-0.05	0.33	0.11	0.00	0.00	0.03	0.57 (0.34)	0.37 (0.36)	0.31 (0.18)
30th	27	25	31	-0.10	0.40	0.11	0.00	0.00	0.00			
25th	26	23	30	-0.15	0.46	0.11	0.00	-0.06	0.00			
20th	25	21	29	-0.20	0.55	0.12	0.00	-0.07	0.00			
15th	23	19	29	-0.20	0.66	0.17	-0.07	-0.13	-0.03			
10th	22	16	28	-0.30	0.79	0.17	-0.13	-0.20	-0.06			
5th	20	12	26	-0.40	0.91	0.17	-0.20	-0.32	-0.10			
M	29.69	28.11	32.43	-0.08	0.29	0.08	0.20	0.05	0.10			
SD	4.71	6.98	2.81	0.12	0.28	0.06	0.30	0.21	0.15			

**Note.** N (Fall, Winter, Spring) = 206, 275, 156;  - Reported values are within the validation phase.



earlyReading (Spanish) Syllable Reading: Kindergarten 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	13	33	47	0.99	0.93	0.96	1.68	1.84	1.28	0.99 (0.6)	1.11 (0.63)	0.93 (0.44)
90th	8	31	44	1.13	0.86	1.01	1.60	1.58	1.20			
85th	7	27	41	0.99	0.92	0.96	1.39	1.49	1.14			
80th	6	25	39	0.94	0.92	0.94	1.30	1.26	1.07	0.9 (0.46)	1.13 (0.56)	0.97 (0.3)
75th	4	22	37	0.88	0.99	0.93	1.20	1.19	1.03			
70th	3	20	35	0.84	0.99	0.91	1.12	1.05	1.01			
65th	2	18	32	0.78	0.95	0.85	1.04	0.99	0.92			
60th	2	17	30	0.74	0.86	0.79	0.97	0.93	0.87			
55th	2	15	29	0.65	0.92	0.77	0.92	0.88	0.81			
50th	2	14	26	0.62	0.79	0.69	0.81	0.79	0.77			
45th	1	13	24	0.58	0.73	0.64	0.65	0.74	0.73			
40th	1	11	23	0.49	0.79	0.62	0.59	0.69	0.66			
35th	1	10	21	0.45	0.73	0.57	0.48	0.57	0.64			
30th	0	9	19	0.45	0.66	0.54	0.38	0.50	0.61	NA	0.74 (0.54)	NA
25th	0	7	17	0.35	0.64	0.47	0.32	0.43	0.58			
20th	0	5	15	0.25	0.65	0.42	0.20	0.37	0.55			
15th	0	3	13	0.15	0.66	0.37	0.11	0.27	0.52			
10th	0	2	10	0.10	0.53	0.28	0.05	0.14	0.46			
5th	0	1	7	0.05	0.40	0.20	0.00	0.10	0.36			
M	2.77	14.89	26.79	0.60	0.79	0.68	0.78	0.84	0.80			
SD	3.52	9.62	11.78	0.33	0.17	0.25	0.54	0.51	0.28			

Note. N (Fall, Winter, Spring) = 166, 791, 558;  - Reported values are within the validation phase.

earlyReading (Spanish) Syllable Reading: 1<sup>st</sup> Grade 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	45	75	93	1.48	1.20	1.36	1.94	3.32	1.88	0.72 (0.48)	2.04 (1.53)	0.74 (0.44)
90th	42	69	87	1.38	1.16	1.28	1.73	2.92	1.68			
85th	39	66	82	1.34	1.09	1.23	1.55	2.65	1.59			
80th	36	63	80	1.33	1.14	1.25	1.47	2.31	1.51	1.03 (0.42)	2.25 (1.36)	1.18 (0.51)
75th	35	59	77	1.18	1.19	1.18	1.38	2.06	1.42			
70th	33	56	72	1.18	1.03	1.12	1.30	1.89	1.34			
65th	30	53	69	1.13	1.07	1.10	1.24	1.66	1.27			
60th	29	50	67	1.02	1.17	1.09	1.16	1.46	1.21			
55th	26	47	65	1.04	1.22	1.12	1.11	1.30	1.12			
50th	24	45	63	1.07	1.17	1.11	1.05	1.09	1.07			
45th	21	44	60	1.13	1.07	1.11	0.99	0.97	0.99			
40th	19	41	59	1.09	1.17	1.13	0.92	0.85	0.95			
35th	18	39	55	1.04	1.07	1.05	0.86	0.73	0.89	1.09 (0.28)	2.35 (1.41)	1.42 (0.48)
30th	16	37	53	1.04	1.06	1.05	0.77	0.62	0.82			
25th	14	35	51	1.04	1.04	1.04	0.69	0.54	0.74			
20th	12	32	48	0.99	1.04	1.01	0.60	0.43	0.65			
15th	11	29	45	0.89	1.06	0.96	0.52	0.32	0.59			
10th	9	23	42	0.72	1.28	0.96	0.40	0.28	0.44			
5th	6	17	39	0.55	1.47	0.94	0.27	0.12	0.36			
M	24.39	46.27	63.57	1.09	1.14	1.11	1.06	1.38	1.08			
SD	11.77	15.85	15.52	0.22	0.11	0.11	0.49	1.03	0.44			

Note. N (Fall, Winter, Spring) = 444, 752, 444;  - Reported values are within the validation phase.

earlyReading (Spanish) Decodable Words: Kindergarten 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	-	34	-	-	-	-	-	-	-	-	-
90th	-	-	28	-	-	-	-	-	-			
85th	-	-	26	-	-	-	-	-	-			
80th	-	-	23	-	-	-	-	-	-	-	-	-
75th	-	-	20	-	-	-	-	-	-			
70th	-	-	19	-	-	-	-	-	-			
65th	-	-	18	-	-	-	-	-	-			
60th	-	-	16	-	-	-	-	-	-			
55th	-	-	16	-	-	-	-	-	-			
50th	-	-	14	-	-	-	-	-	-			
45th	-	-	12	-	-	-	-	-	-			
40th	-	-	10	-	-	-	-	-	-			
35th	-	-	8	-	-	-	-	-	-			
30th	-	-	6	-	-	-	-	-	-	-	-	-
25th	-	-	5	-	-	-	-	-	-			
20th	-	-	3	-	-	-	-	-	-			
15th	-	-	2	-	-	-	-	-	-			
10th	-	-	1	-	-	-	-	-	-			
5th	-	-	0	-	-	-	-	-	-			
M	-	-	13.73	-	-	-	-	-	-			
SD	-	-	9.83	-	-	-	-	-	-			

Note. N (Spring) = 97;  - Reported values are within the validation phase.

earlyReading (Spanish) Decodable Words: 1<sup>st</sup> Grade 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	29	54	68	1.25	0.94	1.11	1.11	NA	NA	0.7 (0.34)	NA	NA
90th	24	49	61	1.24	0.81	1.06	1.03	NA	NA			
85th	21	45	58	1.20	0.82	1.04	0.97	NA	NA			
80th	17	43	53	1.29	0.69	1.03	0.94	NA	NA	0.7 (0.25)	NA	NA
75th	15	40	51	1.24	0.76	1.03	0.85	NA	NA			
70th	14	38	49	1.19	0.73	0.99	0.81	NA	NA			
65th	12	35	47	1.14	0.79	0.99	0.77	NA	NA			
60th	10	34	44	1.19	0.66	0.96	0.73	NA	NA			
55th	9	32	41	1.14	0.59	0.91	0.70	NA	NA			
50th	8	30	40	1.09	0.63	0.89	0.65	NA	NA			
45th	7	29	38	1.09	0.59	0.88	0.61	NA	NA			
40th	6	27	37	1.04	0.66	0.88	0.57	NA	NA			
35th	5	25	36	0.99	0.73	0.88	0.53	NA	NA	1.09 (0.28)	NA	NA
30th	4	23	34	0.94	0.73	0.85	0.50	NA	NA			
25th	3	22	33	0.94	0.73	0.85	0.47	NA	NA			
20th	2	20	32	0.89	0.79	0.85	0.43	NA	NA			
15th	1	19	30	0.89	0.73	0.82	0.39	NA	NA			
10th	1	18	27	0.84	0.60	0.74	0.34	NA	NA			
5th	0	15	20	0.74	0.35	0.58	0.33	NA	NA			
M	9.90	31.48	42.10	1.07	0.70	0.91	0.67	NA	NA			
SD	8.30	11.18	12.41	0.16	0.12	0.13	0.25	NA	NA			

Note. N (Fall, Winter, Spring) = 238, 478, 286;  - Reported values are within the validation phase.

earlyReading (Spanish) Sight Words: Kindergarten 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	35	55	-	1.32	-	-	2.82	-	-	1.61 (1.36)	-
90th	-	27	49	-	1.45	-	-	2.46	-			
85th	-	21	44	-	1.50	-	-	2.26	-			
80th	-	19	39	-	1.32	-	-	2.09	-	-	1.28 (0.88)	-
75th	-	17	35	-	1.19	-	-	1.83	-			
70th	-	15	32	-	1.12	-	-	1.56	-			
65th	-	14	29	-	0.98	-	-	1.39	-			
60th	-	13	26	-	0.86	-	-	1.24	-			
55th	-	12	24	-	0.79	-	-	1.05	-			
50th	-	11	21	-	0.66	-	-	0.95	-			
45th	-	9	18	-	0.59	-	-	0.87	-			
40th	-	8	16	-	0.53	-	-	0.73	-			
35th	-	7	13	-	0.40	-	-	0.67	-	-	0.76 (0.61)	-
30th	-	7	11	-	0.26	-	-	0.59	-			
25th	-	6	9	-	0.20	-	-	0.52	-			
20th	-	5	8	-	0.20	-	-	0.44	-			
15th	-	4	6	-	0.13	-	-	0.33	-			
10th	-	3	4	-	0.07	-	-	0.21	-			
5th	-	2	3	-	0.05	-	-	0.12	-			
M	-	12.39	23.24	-	0.72	-	-	1.18	-			
SD	-	8.60	15.75	-	0.50	-	-	0.83	-			

Note. N (Winter, Spring) = 497, 631;  - Reported values are within the validation phase.


earlyReading (Spanish) Sight Words: 1<sup>st</sup> Grade 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	55	81	99	1.29	1.19	1.25	2.08	3.57	1.78	1.02 (0.57)	1.18 (0.81)	0.95 (-0.37)
90th	50	76	94	1.29	1.19	1.25	1.89	3.28	1.71			
85th	45	70	90	1.24	1.32	1.28	1.77	2.83	1.65			
80th	38	66	87	1.37	1.39	1.38	1.65	2.50	1.59	1.4 (0.44)	2.33 (1.19)	1.49 (0.39)
75th	34	63	82	1.44	1.25	1.36	1.55	2.28	1.56			
70th	30	60	79	1.49	1.25	1.39	1.46	2.11	1.50			
65th	26	58	76	1.59	1.19	1.42	1.34	2.01	1.47			
60th	23	55	73	1.59	1.19	1.42	1.25	1.78	1.44			
55th	20	52	70	1.59	1.19	1.42	1.17	1.58	1.40			
50th	18	49	67	1.54	1.19	1.39	1.11	1.47	1.34			
45th	15	46	65	1.54	1.25	1.42	1.05	1.30	1.27			
40th	12	41	63	1.45	1.44	1.45	0.98	1.19	1.21			
35th	11	37	62	1.28	1.68	1.45	0.92	1.12	1.15	0.88 (0.41)	2.88 (1.26)	1.42 (0.38)
30th	9	33	60	1.19	1.79	1.45	0.84	0.98	1.09			
25th	8	27	58	0.94	2.05	1.42	0.78	0.90	1.04			
20th	6	23	55	0.84	2.11	1.39	0.69	0.77	0.97			
15th	5	18	53	0.65	2.28	1.35	0.59	0.54	0.84			
10th	4	12	46	0.41	2.23	1.19	0.46	0.43	0.71			
5th	3	7	39	0.20	2.11	1.02	0.31	0.25	0.57			
M	21.69	46.00	69.34	1.21	1.54	1.35	1.16	1.64	1.28			
SD	16.30	21.69	16.37	0.41	0.41	0.11	0.52	1.00	0.36			

Note. N (Fall, Winter, Spring) = 447, 752, 396;  - Reported values are within the validation phase.


earlyReading (Spanish) Sentence Reading: Kindergarten 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	-	52	-	-	-	-	-	-	-	-	-
90th	-	-	45	-	-	-	-	-	-			
85th	-	-	39	-	-	-	-	-	-			
80th	-	-	34	-	-	-	-	-	-	-	-	-
75th	-	-	29	-	-	-	-	-	-			
70th	-	-	27	-	-	-	-	-	-			
65th	-	-	24	-	-	-	-	-	-			
60th	-	-	23	-	-	-	-	-	-			
55th	-	-	21	-	-	-	-	-	-			
50th	-	-	19	-	-	-	-	-	-			
45th	-	-	16	-	-	-	-	-	-			
40th	-	-	14	-	-	-	-	-	-			
35th	-	-	13	-	-	-	-	-	-			
30th	-	-	12	-	-	-	-	-	-	-	-	-
25th	-	-	11	-	-	-	-	-	-			
20th	-	-	9	-	-	-	-	-	-			
15th	-	-	8	-	-	-	-	-	-			
10th	-	-	7	-	-	-	-	-	-			
5th	-	-	6	-	-	-	-	-	-			
M	-	-	21.51	-	-	-	-	-	-			
SD	-	-	13.28	-	-	-	-	-	-			

**Note.** N (Spring) = 211;  - Reported values are within the validation phase.



earlyReading (Spanish) Sentence Reading: 1<sup>st</sup> Grade 

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	57	-	-	-	-	-	-	-	-	-	-	-
90th	48	-	-	-	-	-	-	-	-			
85th	42	-	-	-	-	-	-	-	-			
80th	39	-	-	-	-	-	-	-	-	-	-	-
75th	33	-	-	-	-	-	-	-	-			
70th	29	-	-	-	-	-	-	-	-			
65th	26	-	-	-	-	-	-	-	-			
60th	23	-	-	-	-	-	-	-	-			
55th	21	-	-	-	-	-	-	-	-			
50th	19	-	-	-	-	-	-	-	-			
45th	16	-	-	-	-	-	-	-	-			
40th	14	-	-	-	-	-	-	-	-			
35th	12	-	-	-	-	-	-	-	-			
30th	10	-	-	-	-	-	-	-	-	-	-	-
25th	9	-	-	-	-	-	-	-	-			
20th	7	-	-	-	-	-	-	-	-			
15th	6	-	-	-	-	-	-	-	-			
10th	5	-	-	-	-	-	-	-	-			
5th	4	-	-	-	-	-	-	-	-			
M	22.09	-	-	-	-	-	-	-	-			
SD	15.56	-	-	-	-	-	-	-	-			

**Note.** N (Fall) = 446;  - Reported values are within the validation phase.





earlyReading (Spanish) Composite: Kindergarten 

%ile	Scaled Scores			Seasonal Score Differences			Weekly Growth 			Weekly Growth by Percentile Group 		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	45	58	84	0.65	1.67	1.09	2.77	2.05	2.03	1.77 (0.7)	0.67 (0.67)	1.31 (0.52)
90th	44	56	81	0.63	1.60	1.05	2.44	1.79	1.89			
85th	43	55	79	0.62	1.56	1.02	2.26	1.66	1.86			
80th	42	54	77	0.61	1.52	1.00	2.11	1.47	1.79	1.79 (0.39)	0.82 (0.52)	1.4 (0.29)
75th	41	53	76	0.60	1.49	0.98	2.00	1.34	1.73			
70th	41	52	74	0.59	1.46	0.97	1.91	1.21	1.69			
65th	40	52	73	0.58	1.44	0.95	1.81	1.12	1.58			
60th	39	51	72	0.58	1.41	0.94	1.70	1.03	1.52			
55th	39	50	71	0.57	1.39	0.92	1.61	0.95	1.50			
50th	38	49	70	0.56	1.37	0.91	1.53	0.83	1.45			
45th	38	49	69	0.55	1.34	0.89	1.44	0.81	1.39			
40th	37	48	68	0.55	1.32	0.88	1.30	0.74	1.30			
35th	36	47	67	0.54	1.30	0.86	1.12	0.64	1.28	2.02 (0.95)	1.19 (0.94)	1.64 (0.39)
30th	36	47	66	0.53	1.27	0.85	1.01	0.56	1.23			
25th	35	46	65	0.52	1.24	0.83	0.73	0.47	1.16			
20th	34	45	63	0.51	1.21	0.81	0.51	0.35	1.11			
15th	34	44	62	0.50	1.18	0.79	0.17	0.19	1.03			
10th	33	42	59	0.49	1.13	0.76	-0.35	-0.10	0.98			
5th	31	40	56	0.47	1.06	0.72	-0.84	-0.25	0.88			
M	38.10	49.39	70.10	0.56	1.37	0.91	1.30	0.89	1.45			
SD	4.20	5.31	8.01	0.05	0.15	0.09	1.02	0.66	0.36			

Note. N (Fall, Winter, Spring) = 84, 220, 340;  - Reported values are within the validation phase.

earlyReading (Spanish) Composite: 1<sup>st</sup> Grade 

%ile	Scaled Scores			Seasonal Score Differences			Weekly Growth 			Weekly Growth by Percentile Group 		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	47	53	72	0.30	1.26	0.71	0.79	1.37	1.02	0.4 (0.3)	1.08 (0.34)	0.75 (0.26)
90th	44	51	69	0.35	1.19	0.71	0.74	1.20	0.97			
85th	43	50	67	0.35	1.12	0.68	0.67	1.19	0.93			
80th	41	48	64	0.35	1.06	0.65	0.61	1.13	0.90	0.51 (0.19)	0.92 (0.25)	0.72 (0.18)
75th	39	46	62	0.35	1.06	0.65	0.56	1.08	0.88			
70th	38	46	60	0.40	0.92	0.62	0.52	1.07	0.81			
65th	37	45	58	0.42	0.86	0.61	0.48	1.05	0.78			
60th	35	45	57	0.50	0.81	0.63	0.46	1.01	0.75			
55th	34	43	56	0.45	0.86	0.62	0.42	0.98	0.74			
50th	33	43	55	0.50	0.79	0.62	0.39	0.95	0.72			
45th	32	42	54	0.50	0.79	0.62	0.36	0.89	0.69			
40th	31	41	53	0.50	0.79	0.62	0.32	0.84	0.66			
35th	29	40	51	0.55	0.72	0.62	0.29	0.77	0.59	0.48 (0.26)	0.77 (0.21)	0.61 (0.25)
30th	28	38	50	0.50	0.79	0.62	0.25	0.74	0.56			
25th	28	38	47	0.52	0.59	0.55	0.23	0.70	0.53			
20th	26	37	45	0.55	0.55	0.55	0.16	0.65	0.50			
15th	26	35	44	0.45	0.59	0.51	0.09	0.59	0.47			
10th	25	33	41	0.40	0.53	0.45	-0.03	0.57	0.46			
5th	24	30	39	0.30	0.59	0.43	-0.26	0.49	0.41			
M	33.63	42.32	54.99	0.43	0.84	0.61	0.36	0.91	0.70			
SD	6.96	6.18	9.37	0.08	0.22	0.08	0.30	0.25	0.19			

Note. N (Fall, Winter, Spring) = 129, 79, 156;  - Reported values are within the validation phase.

**CBMreading English Norms**

**CBMreading (English): 1<sup>st</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall*	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	75	110	133	1.49	1.52	1.50	2.45	2.68	2.71	2.01 (1.97)	1.29 (0.82)	1.62 (0.49)
90th	65	98	122	1.59	1.58	1.59	2.05	2.40	2.48			
85th	56	90	114	1.64	1.58	1.62	1.76	2.19	2.34			
80th	45	84	107	1.84	1.52	1.70	1.58	2.03	2.22	2.21 (0.74)	1.62 (0.65)	1.91 (0.50)
75th	38	77	100	1.84	1.52	1.70	1.47	1.88	2.12			
70th	31	72	95	1.94	1.52	1.76	1.35	1.75	2.02			
65th	26	67	91	1.99	1.58	1.81	1.28	1.63	1.94			
60th	22	62	86	1.94	1.58	1.79	1.22	1.51	1.86			
55th	19	57	82	1.79	1.65	1.73	1.13	1.39	1.78			
50th	17	51	78	1.64	1.78	1.70	1.03	1.27	1.70			
45th	15	46	74	1.49	1.85	1.64	0.94	1.16	1.62			
40th	14	41	70	1.34	1.92	1.59	0.86	1.05	1.56			
35th	12	37	66	1.24	1.92	1.53	0.80	0.93	1.46			
30th	11	33	62	1.14	1.92	1.47	0.75	0.81	1.39			
25th	10	29	57	0.99	1.85	1.36	0.66	0.69	1.31	1.13 (0.62)	1.32 (0.70)	1.39 (0.65)
20th	9	26	51	0.89	1.65	1.22	0.55	0.54	1.23			
15th	7	22	44	0.79	1.45	1.08	0.49	0.38	1.13			
10th	6	19	38	0.70	1.25	0.94	0.41	0.19	1.00			
5th	4	15	29	0.55	0.92	0.71	0.34	-0.05	0.84			
M	26.30	55	79	1.41	1.61	1.50	1.13	1.29	1.73			
SD	22.29	30	30	0.45	0.25	0.31	0.62	0.81	0.55			

**Note.** N (Fall, Winter, Spring) = 37213, 44102, 43514

\*Fall Score Norms are based on the use of earlyReading: Sentence Reading for 1<sup>st</sup> grade fall screening.

**CBMreading (English): 2<sup>nd</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	123	146	162	1.49	1.52	1.50	2.66	2.19	2.02	1.14 (0.73)	0.80 (0.79)	1.03 (0.45)
90th	113	138	152	1.59	1.58	1.59	2.44	1.98	1.89			
85th	104	131	145	1.64	1.58	1.62	2.28	1.81	1.79			
80th	97	125	140	1.84	1.52	1.70	2.14	1.67	1.70	1.64 (0.61)	1.08 (0.64)	1.36 (0.38)
75th	91	119	135	1.84	1.52	1.70	2.02	1.55	1.63			
70th	86	114	130	1.94	1.52	1.76	1.90	1.44	1.56			
65th	81	109	126	1.99	1.58	1.81	1.80	1.34	1.49			
60th	76	105	122	1.94	1.58	1.79	1.70	1.24	1.43			
55th	71	100	117	1.79	1.65	1.73	1.61	1.15	1.37			
50th	67	96	113	1.64	1.78	1.70	1.51	1.06	1.31			
45th	63	91	109	1.49	1.85	1.64	1.42	0.97	1.25			
40th	59	87	105	1.34	1.92	1.59	1.33	0.88	1.19			
35th	53	84	100	1.24	1.92	1.53	1.24	0.78	1.13			
30th	48	78	96	1.14	1.92	1.47	1.14	0.68	1.06			
25th	42	73	90	0.99	1.85	1.36	1.03	0.58	0.99	1.55 (0.68)	1.21 (0.57)	1.38 (0.45)
20th	36	67	86	0.89	1.65	1.22	0.91	0.47	0.92			
15th	30	61	79	0.79	1.45	1.08	0.78	0.35	0.83			
10th	24	52	70	0.70	1.25	0.94	0.62	0.20	0.73			
5th	17	40	60	0.55	0.92	0.71	0.43	0.00	0.60			
M	68	95	112	1.41	1.61	1.50	1.53	1.08	1.31			
SD	32	31	30	0.45	0.25	0.31	0.67	0.65	0.43			

Note. N (Fall, Winter, Spring) = 39578, 41654, 41425

**CBMreading (English): 3<sup>rd</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	151	170	185	1.14	1.06	1.11	2.44	2.17	1.82	0.86 (0.73)	0.69 (0.82)	0.86 (0.44)
90th	142	162	176	1.24	0.92	1.11	2.22	1.94	1.70			
85th	135	155	168	1.34	0.92	1.16	2.05	1.77	1.60			
80th	129	150	164	1.39	0.99	1.22	1.90	1.62	1.51	1.31 (0.64)	0.94 (0.66)	1.13 (0.37)
75th	123	144	158	1.39	1.06	1.25	1.78	1.48	1.44			
70th	118	139	153	1.39	1.06	1.25	1.67	1.36	1.37			
65th	113	135	149	1.39	1.12	1.28	1.56	1.24	1.30			
60th	108	131	145	1.44	1.12	1.30	1.45	1.14	1.24			
55th	103	128	141	1.44	1.12	1.30	1.36	1.04	1.18			
50th	99	123	138	1.44	1.12	1.30	1.26	0.94	1.12			
45th	95	119	134	1.39	1.19	1.30	1.17	0.85	1.06			
40th	91	115	130	1.39	1.19	1.30	1.07	0.75	1.01			
35th	86	110	126	1.54	1.06	1.33	0.98	0.65	0.95			
30th	81	105	121	1.49	1.19	1.36	0.88	0.55	0.88			
25th	76	100	116	1.54	1.12	1.36	0.77	0.44	0.82	1.46 (0.66)	1.16 (0.65)	1.27 (0.42)
20th	70	94	110	1.54	1.25	1.42	0.65	0.32	0.74			
15th	63	88	103	1.54	1.19	1.39	0.53	0.20	0.66			
10th	55	79	95	1.39	1.19	1.30	0.38	0.06	0.57			
5th	43	66	83	1.14	1.32	1.22	0.20	-0.16	0.44			
M	99	122	136	1.40	1.12	1.28	1.28	0.97	1.13			
SD	32	31	30	0.12	0.10	0.09	0.67	0.70	0.41			

Note. N (Fall, Winter, Spring) = 38688, 40984, 40468

**CBMreading (English): 4<sup>th</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	176	192	206	0.79	0.92	0.85	2.20	2.10	1.65	0.75 (0.74)	0.70 (0.76)	0.79 (0.43)
90th	167	182	198	0.74	1.06	0.88	1.98	1.86	1.52			
85th	160	176	191	0.79	0.99	0.88	1.81	1.68	1.43			
80th	154	171	184	0.84	0.86	0.85	1.67	1.53	1.35	1.12 (0.63)	0.92 (0.69)	1.01 (0.38)
75th	148	166	179	0.89	0.86	0.88	1.56	1.40	1.28			
70th	143	161	175	0.89	0.92	0.91	1.45	1.28	1.21			
65th	138	157	171	0.94	0.92	0.94	1.35	1.18	1.15			
60th	134	152	167	0.89	0.99	0.94	1.25	1.07	1.09			
55th	129	148	163	0.94	0.99	0.96	1.16	0.98	1.04			
50th	125	143	158	0.89	0.99	0.94	1.07	0.88	0.98			
45th	120	140	154	0.99	0.92	0.96	0.98	0.79	0.93			
40th	116	136	150	0.99	0.92	0.96	0.89	0.69	0.88			
35th	112	131	145	0.94	0.92	0.94	0.80	0.60	0.81			
30th	108	127	140	0.94	0.86	0.91	0.71	0.50	0.75			
25th	103	122	135	0.94	0.86	0.91	0.61	0.40	0.69	1.21 (0.58)	1.00 (0.62)	1.05 (0.37)
20th	98	116	130	0.89	0.92	0.91	0.50	0.28	0.62			
15th	93	110	123	0.84	0.86	0.85	0.37	0.15	0.55			
10th	86	102	115	0.79	0.86	0.82	0.22	0.00	0.46			
5th	76	93	104	0.84	0.73	0.79	0.05	-0.19	0.35			
M	125	143	157	0.89	0.91	0.90	1.09	0.91	0.99			
SD	30	30	30	0.07	0.07	0.05	0.64	0.68	0.39			

Note. N (Fall, Winter, Spring) = 30456, 33011, 31804

**CBMreading (English): 5<sup>th</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	188	204	220	0.79	1.06	0.91	2.11	2.07	1.56	0.68 (0.79)	0.62 (0.83)	0.74 (0.45)
90th	181	196	210	0.74	0.92	0.82	1.88	1.82	1.43			
85th	174	189	203	0.74	0.92	0.82	1.71	1.64	1.32			
80th	168	184	197	0.79	0.86	0.82	1.56	1.48	1.24	0.96 (0.64)	0.86 (0.70)	0.89 (0.38)
75th	163	178	192	0.74	0.92	0.82	1.44	1.35	1.17			
70th	158	173	187	0.74	0.92	0.82	1.32	1.24	1.10			
65th	154	169	183	0.74	0.92	0.82	1.22	1.12	1.04			
60th	151	164	178	0.65	0.92	0.77	1.13	1.02	0.99			
55th	146	161	174	0.74	0.86	0.79	1.03	0.93	0.93			
50th	142	157	169	0.74	0.79	0.77	0.94	0.82	0.88			
45th	138	153	165	0.74	0.79	0.77	0.84	0.73	0.82			
40th	133	150	161	0.84	0.73	0.79	0.76	0.63	0.77			
35th	128	145	157	0.84	0.79	0.82	0.67	0.53	0.72			
30th	123	140	154	0.84	0.92	0.88	0.57	0.44	0.66			
25th	118	136	149	0.89	0.86	0.88	0.47	0.33	0.60	1.12 (0.60)	0.96 (0.62)	0.96 (0.35)
20th	113	130	143	0.84	0.86	0.85	0.36	0.20	0.53			
15th	107	123	137	0.79	0.92	0.85	0.24	0.07	0.46			
10th	100	116	128	0.79	0.79	0.79	0.10	-0.07	0.37			
5th	91	107	118	0.79	0.73	0.77	-0.09	-0.28	0.26			
M	141	156	170	0.78	0.87	0.82	0.96	0.85	0.89			
SD	29	29	30	0.06	0.08	0.04	0.66	0.70	0.39			

Note. N (Fall, Winter, Spring) = 24606, 26565, 25974

**CBMreading (English): 6<sup>th</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	199	211	227	0.60	1.06	0.79	2.29	2.26	1.64	0.69 (0.78)	0.77 (0.80)	0.78 (0.44)
90th	190	204	220	0.70	1.06	0.85	2.00	2.00	1.49			
85th	182	199	213	0.84	0.92	0.88	1.79	1.80	1.39			
80th	176	193	208	0.84	0.99	0.91	1.63	1.64	1.31	1.01 (0.70)	1.00 (0.73)	0.96 (0.40)
75th	171	187	202	0.79	0.99	0.88	1.49	1.50	1.24			
70th	167	182	198	0.74	1.06	0.88	1.37	1.39	1.16			
65th	163	177	193	0.70	1.06	0.85	1.25	1.26	1.10			
60th	159	173	188	0.70	0.99	0.82	1.15	1.16	1.04			
55th	155	169	184	0.70	0.99	0.82	1.05	1.06	0.98			
50th	150	165	180	0.74	0.99	0.85	0.95	0.95	0.92			
45th	146	162	175	0.79	0.86	0.82	0.86	0.86	0.87			
40th	141	158	171	0.84	0.86	0.85	0.78	0.76	0.82			
35th	136	153	167	0.84	0.92	0.88	0.68	0.66	0.76			
30th	132	149	163	0.84	0.92	0.88	0.58	0.56	0.70			
25th	127	143	158	0.79	0.99	0.88	0.48	0.45	0.63	1.16 (0.69)	1.08 (0.67)	1.00 (0.38)
20th	122	136	151	0.70	0.99	0.82	0.36	0.32	0.56			
15th	116	130	144	0.70	0.92	0.79	0.21	0.19	0.49			
10th	107	123	134	0.79	0.73	0.77	0.06	0.05	0.40			
5th	97	110	124	0.65	0.92	0.77	-0.12	-0.17	0.29			
M	149	164	179	0.75	0.96	0.84	1.00	0.99	0.94			
SD	30	30	31	0.08	0.08	0.04	0.72	0.73	0.41			

Note. N (Fall, Winter, Spring) = 6596, 7727, 6485



**CBMreading Spanish Norms**

**CBMreading (Spanish): 1<sup>st</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	57	87	116	NA	1.94	NA	NA	2.20	2.71	NA	1.26 (0.66)	NA
90th	48	79	110	NA	2.05	NA	NA	2.02	NA			
85th	42	73	103	NA	1.98	NA	NA	1.86	NA			
80th	39	70	97	NA	1.78	NA	NA	1.78	NA	NA	1.44 (0.43)	NA
75th	33	67	91	NA	1.62	NA	NA	1.69	NA			
70th	29	62	88	NA	1.70	NA	NA	1.60	NA			
65th	26	57	84	NA	1.78	NA	NA	1.54	NA			
60th	23	54	80	NA	1.72	NA	NA	1.47	NA			
55th	21	50	77	NA	1.81	NA	NA	1.41	NA			
50th	19	47	75	NA	1.88	NA	NA	1.36	NA			
45th	16	44	73	NA	1.92	NA	NA	1.31	NA			
40th	14	41	72	NA	2.05	NA	NA	1.26	NA			
35th	12	37	68	NA	2.07	NA	NA	1.21	NA			
30th	10	32	66	NA	2.25	NA	NA	1.13	NA	NA	1.33 (0.41)	NA
25th	9	26	62	NA	2.36	NA	NA	1.06	NA			
20th	7	22	58	NA	2.36	NA	NA	0.99	NA			
15th	6	17	51	NA	2.25	NA	NA	0.89	NA			
10th	5	12	44	NA	2.13	NA	NA	0.79	NA			
5th	4	9	39	NA	2.02	NA	NA	0.67	NA			
M	22.09	47	77	NA	1.98	NA	NA	1.39	NA			
SD	15.56	23	21	NA	0.22	NA	NA	0.46	NA			

**Note.** N (Winter, Spring) = 512, 443;  - Reported values are within the validation phase.

**CBMreading (Spanish): 2<sup>nd</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	93	119	129	1.28	0.66	1.01	2.25	1.58	1.64	0.95 (0.58)	0.69 (0.54)	0.81 (0.37)
90th	86	109	123	1.12	0.92	1.04	2.08	1.43	1.52			
85th	82	104	117	1.09	0.88	1.00	1.95	1.30	1.42			
80th	77	99	113	1.12	0.90	1.03	1.88	1.21	1.36	1.39 (0.58)	0.74 (0.50)	1.05 (0.36)
75th	72	96	109	1.21	0.87	1.06	1.77	1.11	1.30			
70th	67	93	107	1.28	0.91	1.13	1.65	1.02	1.24			
65th	66	90	103	1.19	0.86	1.05	1.52	0.91	1.16			
60th	63	87	100	1.18	0.87	1.05	1.41	0.85	1.11			
55th	60	83	96	1.14	0.86	1.02	1.32	0.82	1.05			
50th	57	80	91	1.13	0.74	0.96	1.24	0.74	0.98			
45th	54	75	88	1.04	0.86	0.96	1.17	0.67	0.93			
40th	51	72	86	1.03	0.94	0.99	1.11	0.62	0.87			
35th	48	68	83	1.01	0.99	1.00	1.00	0.56	0.82			
30th	44	65	79	1.03	0.95	0.99	0.93	0.48	0.77			
25th	41	62	76	1.04	0.92	0.99	0.86	0.43	0.72	1.32 (0.55)	0.82 (0.44)	1.06 (0.36)
20th	38	59	73	1.05	0.92	0.99	0.73	0.33	0.65			
15th	33	54	69	1.03	0.98	1.01	0.61	0.23	0.60			
10th	30	48	65	0.89	1.12	0.99	0.50	0.10	0.53			
5th	28	41	60	0.65	1.25	0.91	0.38	-0.08	0.46			
M	57	79	93	1.08	0.92	1.01	1.29	0.76	1.01			
SD	19	21	20	0.14	0.12	0.05	0.58	0.49	0.36			

**Note.** N (Fall, Winter, Spring) = 395, 440, 390;  - Reported values are within the validation phase.

**CBMreading (Spanish): 3<sup>rd</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	97	116	125	0.93	0.62	0.79	1.89	1.55	1.44	0.78 (0.49)	0.28 (0.62)	0.63 (0.31)
90th	92	108	120	0.78	0.81	0.79	1.69	1.37	1.33			
85th	85	104	114	0.92	0.69	0.82	1.55	1.24	1.22			
80th	80	100	111	0.99	0.73	0.88	1.44	1.13	1.15	1.06 (0.46)	0.75 (0.47)	.90 (0.30)
75th	77	97	109	0.99	0.79	0.91	1.35	1.04	1.09			
70th	74	94	107	0.99	0.86	0.94	1.26	0.97	1.04			
65th	72	93	105	1.02	0.83	0.94	1.19	0.85	1.00			
60th	69	90	102	1.02	0.83	0.94	1.12	0.78	0.92			
55th	67	87	100	0.99	0.86	0.94	1.06	0.72	0.87			
50th	65	84	97	0.92	0.86	0.89	1.00	0.65	0.83			
45th	62	80	95	0.91	0.96	0.94	0.93	0.56	0.78			
40th	60	77	93	0.84	1.06	0.94	0.88	0.49	0.71			
35th	57	75	90	0.88	1.01	0.94	0.81	0.43	0.68			
30th	55	72	87	0.84	1.00	0.91	0.75	0.36	0.60			
25th	53	68	82	0.74	0.92	0.82	0.69	0.26	0.57	1.09 (0.53)	0.67 (0.55)	0.88 (0.40)
20th	51	65	77	0.71	0.77	0.74	0.57	0.18	0.53			
15th	49	64	73	0.75	0.59	0.68	0.45	0.06	0.47			
10th	47	60	67	0.65	0.46	0.57	0.37	-0.06	0.41			
5th	42	52	62	0.50	0.66	0.57	0.25	-0.23	0.31			
M	66	83	95	0.86	0.80	0.84	1.02	0.65	0.84			
SD	15	17	17	0.14	0.15	0.12	0.48	0.53	0.34			

**Note.** N (Fall, Winter, Spring) = 384, 432, 378;  - Reported values are within the validation phase

**CBMreading (Spanish): 4<sup>th</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	135	146	153	0.55	0.46	0.51	1.56	1.54	1.22	0.40 (0.54)	0.36 (0.57)	0.44 (0.30)
90th	129	140	148	0.55	0.53	0.54	1.44	1.38	1.11			
85th	124	135	143	0.52	0.56	0.54	1.32	1.19	1.03			
80th	119	129	142	0.50	0.86	0.65	1.22	1.11	0.96	0.76 (0.49)	0.64 (0.56)	0.69 (0.30)
75th	115	126	137	0.55	0.73	0.62	1.16	1.01	0.91			
70th	112	124	135	0.60	0.73	0.65	1.07	0.90	0.85			
65th	108	122	134	0.70	0.78	0.73	0.99	0.84	0.82			
60th	105	120	131	0.74	0.76	0.75	0.87	0.78	0.78			
55th	102	117	127	0.74	0.66	0.71	0.79	0.69	0.73			
50th	100	115	125	0.74	0.66	0.71	0.74	0.58	0.70			
45th	98	112	123	0.70	0.73	0.71	0.68	0.50	0.65			
40th	94	110	120	0.77	0.66	0.73	0.62	0.41	0.59			
35th	92	107	116	0.76	0.59	0.68	0.54	0.33	0.54			
30th	90	105	114	0.74	0.59	0.68	0.46	0.26	0.49			
25th	87	101	111	0.70	0.66	0.68	0.38	0.18	0.43	0.96 (0.48)	0.70 (0.51)	0.80 (0.30)
20th	83	98	108	0.74	0.66	0.71	0.32	0.10	0.38			
15th	80	94	104	0.70	0.66	0.68	0.24	0.01	0.32			
10th	76	91	99	0.74	0.52	0.65	0.12	-0.06	0.24			
5th	71	87	94	0.83	0.45	0.66	-0.13	-0.25	0.16			
M	101	114	124	0.68	0.64	0.66	0.76	0.61	0.68			
SD	18	17	17	0.10	0.11	0.07	0.50	1.54	0.31			

**Note.** N (Fall, Winter, Spring) = 370, 369, 368;  - Reported values are within the validation phase.

**CBMreading (Spanish): 5<sup>th</sup> Grade**

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	128	141	146	0.62	0.33	0.50	1.37	1.13	0.96	0.44 (0.53)	0.33 (0.44)	0.43 (0.27)
90th	123	136	143	0.65	0.46	0.57	1.29	0.99	0.86			
85th	120	131	139	0.54	0.53	0.54	1.20	0.91	0.81			
80th	117	128	136	0.55	0.53	0.54	1.13	0.80	0.77	0.68 (0.38)	0.39 (0.38)	0.54 (0.21)
75th	115	125	132	0.50	0.46	0.48	1.05	0.67	0.74			
70th	113	123	129	0.50	0.41	0.46	0.98	0.59	0.68			
65th	111	119	126	0.40	0.46	0.43	0.91	0.53	0.66			
60th	108	117	124	0.45	0.46	0.45	0.81	0.47	0.63			
55th	105	115	122	0.50	0.46	0.48	0.74	0.43	0.59			
50th	102	113	120	0.57	0.46	0.52	0.69	0.37	0.56			
45th	100	110	118	0.52	0.50	0.51	0.62	0.32	0.52			
40th	97	108	116	0.55	0.53	0.54	0.55	0.28	0.49			
35th	94	105	113	0.55	0.53	0.54	0.50	0.23	0.45			
30th	90	102	110	0.60	0.53	0.57	0.45	0.18	0.43			
25th	87	98	107	0.54	0.60	0.57	0.38	0.12	0.39	0.90 (0.40)	0.52 (0.40)	0.68 (0.23)
20th	82	95	104	0.62	0.63	0.62	0.32	0.06	0.36			
15th	78	90	102	0.60	0.78	0.68	0.25	0.00	0.29			
10th	73	87	97	0.69	0.66	0.68	0.16	-0.06	0.25			
5th	69	82	90	0.63	0.57	0.61	0.06	-0.19	0.19			
M	100	112	120	0.56	0.52	0.54	0.71	0.41	0.56			
SD	17	17	16	0.07	0.10	0.07	0.42	0.39	0.23			

**Note.** N (Fall, Winter, Spring) = 350, 394, 348;  - Reported values are within the validation phase.

aReading Norms

aReading: Kindergarten

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	427	448	467	4.37	5.38	4.80	12.81	11.85	8.65	3.44 (2.26)	2.37 (3.05)	3.86 (1.60)
90th	421	444	459	4.81	4.47	4.66	11.36	9.96	8.01			
85th	415	441	454	5.45	3.85	4.76	10.19	8.52	7.48			
80th	411	438	450	5.77	3.46	4.78	9.31	7.52	7.04	5.69 (3.57)	3.38 (2.68)	5.02 (1.66)
75th	408	436	447	5.85	3.17	4.70	8.55	6.66	6.68			
70th	406	434	445	5.97	3.05	4.71	7.91	5.96	6.39			
65th	404	432	443	6.08	3.04	4.77	7.21	5.34	6.09			
60th	401	430	441	6.23	3.17	4.92	6.63	4.76	5.69			
55th	398	428	439	6.36	3.36	5.07	6.11	4.23	5.45			
50th	393	425	438	6.63	3.78	5.41	5.55	3.71	5.10			
45th	389	421	436	6.85	4.14	5.69	4.96	3.22	4.81			
40th	386	417	434	6.60	4.83	5.84	4.48	2.74	4.51			
35th	384	413	432	6.29	5.39	5.90	3.92	2.31	4.26	7.62 (4.88)	7.44 (5.35)	6.35 (2.38)
30th	381	409	430	5.87	5.88	5.87	3.32	1.84	3.97			
25th	378	404	426	5.57	6.19	5.84	2.83	1.39	3.65			
20th	376	399	423	4.92	6.77	5.71	2.26	0.91	3.22			
15th	373	391	416	4.02	7.02	5.30	1.61	0.36	2.91			
10th	369	386	408	3.72	6.22	4.79	0.82	-0.27	2.51			
5th	366	383	397	3.60	4.00	3.77	-0.15	-1.21	1.96			
M	394	420	436	5.52	4.59	5.12	5.81	4.28	5.18			
SD	19	21	19	1.00	1.34	0.58	3.87	3.86	2.02			

Note. N (Fall, Winter, Spring) = 2357, 25663, 24720

aReading: 1<sup>st</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	470	486	499	3.33	3.53	3.41	10.82	7.57	0.21	2.86 (2.10)	1.59 (2.45)	2.81 (1.21)
90th	464	482	494	3.80	3.63	3.72	9.34	6.73	0.19			
85th	459	479	490	4.26	3.10	3.76	8.32	6.21	0.18			
80th	454	476	486	4.74	2.67	3.86	7.57	5.78	0.16	4.61 (2.32)	3.36 (2.25)	4.11 (1.25)
75th	449	474	482	5.18	2.46	4.01	6.94	5.44	0.15			
70th	446	471	480	5.31	2.61	4.15	6.40	5.13	0.15			
65th	444	468	479	5.25	2.89	4.24	5.93	4.87	0.14			
60th	442	465	477	5.10	3.29	4.33	5.49	4.64	0.13			
55th	440	462	476	4.82	3.75	4.36	5.07	4.43	0.13			
50th	438	459	474	4.50	4.14	4.35	4.67	4.20	0.12			
45th	436	456	472	4.24	4.48	4.34	4.27	3.99	0.11			
40th	434	453	469	4.06	4.55	4.27	3.89	3.75	0.11			
35th	432	450	467	3.85	4.66	4.20	3.50	3.52	0.10			
30th	429	447	463	3.78	4.58	4.12	3.10	3.28	0.09	7.63 (4.57)	5.12 (3.84)	6.01 (2.52)
25th	426	445	460	3.95	4.19	4.05	2.67	3.02	0.09			
20th	422	442	456	4.19	3.92	4.07	2.25	2.74	0.08			
15th	416	439	452	4.98	3.49	4.34	1.78	2.43	0.07			
10th	407	436	447	6.18	3.16	4.89	1.21	2.07	0.06			
5th	397	430	441	7.08	3.15	5.39	0.58	1.60	0.05			
M	437	459	472	4.66	3.59	4.20	5.00	4.32	0.12			
SD	20	18	17	0.91	0.70	0.42	3.06	1.77	0.04			

Note. N (Fall, Winter, Spring) = 19103, 26723, 25523

aReading: 2<sup>nd</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	497	508	516	2.26	2.24	2.25	7.21	6.26	4.93	1.68 (2.02)	1.01 (2.06)	1.77 (1.11)
90th	492	504	511	2.50	2.01	2.29	6.32	5.46	4.47			
85th	489	501	508	2.69	1.81	2.31	5.69	4.87	4.13			
80th	486	499	505	2.84	1.74	2.37	5.20	4.36	3.84	2.75 (2.08)	2.15 (2.29)	2.47 (1.15)
75th	483	497	503	2.91	1.82	2.44	4.74	3.90	3.60			
70th	481	494	501	2.80	2.08	2.49	4.33	3.47	3.38			
65th	479	490	499	2.51	2.51	2.51	3.96	3.07	3.17			
60th	477	487	497	2.28	2.86	2.53	3.63	2.70	2.98			
55th	475	484	495	2.02	3.09	2.48	3.31	2.36	2.80			
50th	473	482	493	1.96	2.93	2.38	2.97	2.03	2.60			
45th	471	481	490	2.05	2.56	2.27	2.65	1.70	2.42			
40th	469	479	487	2.22	2.12	2.18	2.32	1.40	2.23			
35th	466	478	484	2.56	1.67	2.18	1.99	1.11	2.04			
30th	463	476	481	2.86	1.48	2.27	1.66	0.79	1.85	4.66 (2.57)	3.02 (2.45)	3.56 (1.45)
25th	459	475	480	3.27	1.41	2.47	1.33	0.47	1.64			
20th	455	473	478	3.64	1.49	2.72	0.97	0.11	1.42			
15th	451	469	476	3.91	1.85	3.02	0.57	-0.32	1.18			
10th	446	464	473	3.88	2.37	3.23	0.11	-0.83	0.89			
5th	440	457	466	3.55	2.69	3.18	-0.52	-1.50	0.53			
M	471	484	492	2.77	2.14	2.50	3.09	2.19	2.65			
SD	17	15	15	0.62	0.52	0.32	2.31	2.33	1.32			

Note. N (Fall, Winter, Spring) = 22801, 29194, 27962



aReading: 3<sup>rd</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	512	521	530	1.91	2.60	2.21	6.21	5.90	4.19	1.48 (1.91)	0.94 (2.07)	1.60 (1.07)
90th	508	518	526	2.06	2.40	2.20	5.52	5.12	3.78			
85th	505	515	522	2.08	2.02	2.05	4.96	4.51	3.48			
80th	503	512	519	1.98	1.99	1.98	4.51	4.00	3.23	2.48 (2.09)	1.72 (2.20)	2.13 (1.17)
75th	501	509	517	1.78	2.25	1.98	4.09	3.55	3.01			
70th	499	507	515	1.67	2.24	1.92	3.71	3.16	2.83			
65th	497	505	512	1.71	2.04	1.85	3.36	2.78	2.64			
60th	495	503	510	1.72	1.83	1.77	3.05	2.43	2.47			
55th	492	502	507	1.95	1.66	1.83	2.73	2.12	2.30			
50th	489	500	505	2.37	1.58	2.03	2.42	1.80	2.12			
45th	486	498	504	2.63	1.57	2.17	2.10	1.47	1.95			
40th	483	496	502	2.71	1.59	2.23	1.79	1.17	1.77			
35th	481	493	500	2.56	1.83	2.25	1.49	0.84	1.60	3.23 (2.26)	2.80 (2.54)	2.50 (1.30)
30th	480	490	498	2.16	2.28	2.21	1.17	0.53	1.42			
25th	478	486	495	1.64	2.68	2.09	0.86	0.19	1.22			
20th	476	483	491	1.36	2.41	1.81	0.54	-0.18	0.99			
15th	474	480	486	1.28	1.69	1.46	0.16	-0.59	0.76			
10th	471	478	482	1.41	1.18	1.31	-0.28	-1.14	0.49			
5th	466	475	478	1.85	1.00	1.48	-0.85	-1.87	0.19			
M	489	498	505	1.94	1.94	1.94	2.52	1.89	2.13			
SD	14	15	16	0.41	0.46	0.28	2.13	2.31	1.20			

Note. N (Fall, Winter, Spring) = 21431, 26447, 26260

aReading: 4<sup>th</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	526	533	539	1.52	1.74	1.61	5.97	5.73	3.94	0.80 (1.84)	0.37 (2.00)	1.03 (0.98)
90th	521	529	536	1.73	2.02	1.85	5.21	4.92	3.51			
85th	518	526	533	1.53	2.15	1.80	4.65	4.31	3.21			
80th	516	523	531	1.36	2.27	1.75	4.17	3.79	2.95	1.99 (2.00)	1.73 (2.25)	1.74 (1.17)
75th	514	520	528	1.41	2.26	1.77	3.74	3.36	2.71			
70th	511	518	526	1.55	2.08	1.78	3.37	2.96	2.49			
65th	509	517	523	1.67	1.85	1.75	2.99	2.60	2.30			
60th	506	515	521	1.73	1.70	1.72	2.65	2.24	2.11			
55th	505	513	519	1.69	1.68	1.68	2.34	1.92	1.94			
50th	503	510	516	1.51	1.77	1.62	2.02	1.60	1.76			
45th	501	507	514	1.32	1.85	1.54	1.71	1.29	1.57			
40th	499	505	511	1.31	1.65	1.46	1.40	0.97	1.40			
35th	497	503	509	1.32	1.42	1.37	1.12	0.65	1.22			
30th	495	501	506	1.45	1.30	1.39	0.82	0.33	1.03	3.28 (2.36)	2.49 (2.56)	2.40 (1.34)
25th	490	499	504	1.88	1.26	1.61	0.52	-0.03	0.85			
20th	485	497	501	2.38	1.29	1.91	0.17	-0.41	0.63			
15th	482	493	498	2.31	1.57	1.99	-0.18	-0.86	0.42			
10th	479	486	494	1.53	2.36	1.89	-0.63	-1.40	0.16			
5th	476	481	487	1.07	1.70	1.34	-1.24	-2.18	-0.16			
M	502	509	515	1.59	1.79	1.67	2.16	1.68	1.80			
SD	15	15	16	0.33	0.34	0.19	2.17	2.34	1.24			

Note. N (Fall, Winter, Spring) = 18004, 22497, 22226

aReading: 5<sup>th</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	537	541	544	0.75	1.03	0.87	5.61	5.76	3.74	0.09 (1.62)	-0.03 (1.98)	0.58 (0.96)
90th	533	538	542	1.07	1.09	1.08	4.83	4.94	3.33			
85th	530	536	540	1.23	1.25	1.24	4.27	4.26	3.01			
80th	527	533	539	1.25	1.62	1.41	3.75	3.73	2.74	1.80 (2.01)	1.65 (2.26)	1.62 (1.14)
75th	524	530	537	1.38	1.83	1.58	3.34	3.30	2.51			
70th	521	528	535	1.50	1.91	1.68	2.98	2.87	2.28			
65th	519	526	533	1.41	1.99	1.66	2.63	2.48	2.07			
60th	517	523	531	1.26	2.07	1.61	2.29	2.13	1.89			
55th	515	521	529	1.23	2.12	1.61	1.98	1.79	1.70			
50th	513	519	526	1.31	1.99	1.60	1.67	1.47	1.52			
45th	511	518	524	1.53	1.67	1.59	1.36	1.15	1.34			
40th	508	516	521	1.65	1.49	1.58	1.07	0.83	1.17			
35th	506	514	519	1.63	1.42	1.54	0.77	0.51	0.99			
30th	504	511	516	1.49	1.51	1.50	0.47	0.18	0.80	2.93 (2.44)	2.47 (2.61)	2.19 (1.37)
25th	501	507	513	1.28	1.63	1.43	0.16	-0.16	0.62			
20th	499	505	509	1.23	1.36	1.28	-0.16	-0.53	0.42			
15th	496	502	506	1.33	1.09	1.23	-0.55	-1.00	0.20			
10th	488	498	502	2.17	1.07	1.70	-1.03	-1.57	-0.08			
5th	482	493	498	2.30	1.43	1.93	-1.72	-2.37	-0.41			
M	512	519	524	1.42	1.56	1.48	1.78	1.57	1.58			
SD	16	15	15	0.35	0.36	0.25	2.18	2.40	1.25			

Note. N (Fall, Winter, Spring) = 15446, 18341, 18331

aReading: 6<sup>th</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	542	544	550	0.52	1.61	0.99	5.09	5.70	3.39	-0.16 (1.69)	0.03 (2.20)	0.52 (1.12)
90th	540	542	546	0.51	1.06	0.74	4.34	4.88	2.98			
85th	538	540	544	0.53	0.97	0.72	3.76	4.14	2.68			
80th	536	539	542	0.70	0.93	0.80	3.22	3.62	2.39	1.26 (2.00)	1.33 (2.18)	1.20 (1.11)
75th	533	537	541	0.90	0.94	0.92	2.83	3.15	2.16			
70th	531	536	539	1.02	1.04	1.03	2.43	2.74	1.92			
65th	529	533	538	0.98	1.29	1.11	2.11	2.38	1.73			
60th	526	531	536	0.96	1.54	1.21	1.79	2.03	1.54			
55th	523	529	534	1.09	1.56	1.29	1.47	1.66	1.36			
50th	521	526	532	1.11	1.64	1.34	1.17	1.34	1.17			
45th	518	523	530	1.07	1.75	1.36	0.87	1.00	0.97			
40th	516	521	527	1.09	1.74	1.37	0.60	0.67	0.80			
35th	514	519	524	1.20	1.46	1.31	0.31	0.32	0.63			
30th	511	517	521	1.31	1.20	1.26	0.01	0.01	0.46	2.40 (2.56)	2.53 (2.84)	1.79 (1.41)
25th	508	514	519	1.35	1.26	1.31	-0.30	-0.35	0.27			
20th	505	510	515	1.18	1.24	1.20	-0.64	-0.73	0.09			
15th	502	506	511	0.87	1.24	1.03	-1.04	-1.18	-0.14			
10th	499	503	506	0.87	0.93	0.90	-1.52	-1.80	-0.40			
5th	491	497	501	1.23	1.06	1.16	-2.31	-2.62	-0.71			
M	520	524	529	0.97	1.29	1.11	1.28	1.43	1.23			
SD	16	15	15	0.26	0.29	0.22	2.19	2.46	1.25			

Note. N (Fall, Winter, Spring) = 7168, 8139, 8035

aReading: 7<sup>th</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	544	545	557	0.20	3.23	1.50	5.44	5.84	3.50	-0.47 (2.36)	0.86 (2.40)	1.02 (1.28)
90th	542	543	553	0.10	2.72	1.23	4.56	5.02	3.02			
85th	541	541	549	0.08	2.31	1.04	3.92	4.43	2.70			
80th	539	539	546	0.10	1.88	0.86	3.33	3.87	2.40	0.87 (1.97)	1.63 (2.24)	1.05 (1.16)
75th	537	538	544	0.15	1.73	0.83	2.81	3.41	2.15			
70th	535	536	542	0.29	1.69	0.89	2.38	3.02	1.96			
65th	532	534	540	0.35	1.75	0.95	2.05	2.69	1.76			
60th	531	532	538	0.19	1.90	0.92	1.67	2.35	1.54			
55th	529	530	536	0.18	1.92	0.93	1.32	2.02	1.39			
50th	527	527	534	0.06	2.00	0.89	0.98	1.69	1.17			
45th	524	525	531	0.05	1.85	0.82	0.68	1.37	1.01			
40th	521	522	529	0.19	1.94	0.94	0.39	0.98	0.86			
35th	519	520	526	0.28	1.83	0.95	0.11	0.58	0.69	2.47 (2.80)	2.45 (2.91)	1.73 (1.50)
30th	516	518	523	0.43	1.42	0.85	-0.17	0.19	0.49			
25th	512	515	519	0.58	1.10	0.80	-0.51	-0.19	0.30			
20th	508	512	515	0.86	0.93	0.89	-0.87	-0.57	0.09			
15th	505	507	511	0.55	0.97	0.73	-1.27	-1.01	-0.13			
10th	501	504	506	0.55	0.54	0.55	-1.93	-1.58	-0.47			
5th	495	498	499	0.78	0.27	0.56	-2.85	-2.28	-0.85			
M	524	525	531	0.32	1.68	0.90	1.16	1.67	1.25			
SD	16	15	17	0.25	0.71	0.21	2.23	2.44	1.29			

Note. N (Fall, Winter, Spring) = 2640, 3003, 2969

aReading: 8<sup>th</sup> Grade


%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	548	552	563	0.92	3.12	1.87	5.39	5.92	3.53	-0.80 (2.78)	0.98 (2.90)	0.88 (1.49)
90th	545	547	558	0.40	3.23	1.62	4.23	5.18	3.05			
85th	543	545	555	0.29	2.80	1.37	3.49	4.49	2.68			
80th	542	543	552	0.22	2.60	1.24	2.98	4.01	2.41	0.72 (1.88)	1.81 (2.15)	1.06 (1.20)
75th	541	542	549	0.25	2.15	1.06	2.53	3.63	2.14			
70th	539	540	547	0.27	1.90	0.97	2.10	3.27	1.93			
65th	538	539	545	0.25	1.77	0.91	1.74	2.86	1.71			
60th	536	537	543	0.21	1.65	0.83	1.34	2.49	1.49			
55th	534	536	541	0.29	1.54	0.82	1.09	2.19	1.32			
50th	532	534	539	0.36	1.54	0.86	0.84	1.92	1.13			
45th	530	531	537	0.22	1.54	0.79	0.50	1.58	0.96			
40th	528	529	534	0.16	1.60	0.78	0.30	1.18	0.77			
35th	525	526	531	0.31	1.53	0.84	-0.01	0.82	0.57	2.36 (2.89)	2.43 (2.86)	1.54 (1.64)
30th	521	524	528	0.61	1.37	0.94	-0.34	0.45	0.37			
25th	517	520	525	0.75	1.33	1.00	-0.70	0.09	0.17			
20th	513	517	521	0.96	0.95	0.96	-1.14	-0.34	-0.10			
15th	508	514	517	1.15	0.87	1.03	-1.61	-0.92	-0.36			
10th	503	507	511	0.74	1.07	0.88	-2.25	-1.59	-0.70			
5th	497	502	504	0.95	0.62	0.81	-3.25	-2.53	-1.14			
M	528	531	537	0.49	1.75	1.03	0.91	1.82	1.16			
SD	16	15	17	0.32	0.74	0.30	2.46	2.50	1.38			

Note. N (Fall, Winter, Spring) = 2097, 2558, 2262

aReading: 9<sup>th</sup> Grade 

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	561	561	564	0.10	0.95	0.47	5.39	5.92	3.53	-0.80 (2.78)	0.98 (2.90)	0.88 (1.49)
90th	555	555	558	0.16	0.81	0.44	4.23	5.18	3.05			
85th	551	552	554	0.21	0.71	0.42	3.49	4.49	2.68			
80th	548	548	551	0.24	0.63	0.41	2.98	4.01	2.41	0.72 (1.88)	1.81 (2.15)	1.06 (1.20)
75th	545	546	548	0.27	0.56	0.39	2.53	3.63	2.14			
70th	542	544	545	0.30	0.50	0.38	2.10	3.27	1.93			
65th	540	541	543	0.32	0.44	0.37	1.74	2.86	1.71			
60th	538	539	541	0.35	0.39	0.36	1.34	2.49	1.49			
55th	536	537	538	0.37	0.33	0.35	1.09	2.19	1.32			
50th	534	535	536	0.39	0.28	0.34	0.84	1.92	1.13			
45th	532	533	534	0.41	0.23	0.33	0.50	1.58	0.96			
40th	530	531	532	0.43	0.18	0.33	0.30	1.18	0.77			
35th	527	529	530	0.46	0.13	0.32	-0.01	0.82	0.57	2.36 (2.89)	2.43 (2.86)	1.54 (1.64)
30th	525	527	527	0.48	0.07	0.31	-0.34	0.45	0.37			
25th	523	525	525	0.51	0.01	0.29	-0.70	0.09	0.17			
20th	520	522	522	0.54	-0.06	0.28	-1.14	-0.34	-0.10			
15th	517	519	519	0.57	-0.14	0.27	-1.61	-0.92	-0.36			
10th	513	515	514	0.62	-0.24	0.25	-2.25	-1.59	-0.70			
5th	507	510	508	0.68	-0.39	0.22	-3.25	-2.53	-1.14			
M	534	535	536	0.39	0.28	0.34	0.91	1.82	1.16			
SD	15	14	15	0.16	0.36	0.07	2.46	2.50	1.38			


**Note.** Monthly Growth and Monthly Growth by Percentile Group based on estimates from earlier grades.

 - Reported values are within the validation phase.

aReading: 10<sup>th</sup> Grade 

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	562	563	565	0.39	0.33	0.36	5.39	5.92	3.53	-0.80 (2.78)	0.98 (2.90)	0.88 (1.49)
90th	556	557	558	0.35	0.28	0.32	4.23	5.18	3.05			
85th	552	553	554	0.32	0.24	0.29	3.49	4.49	2.68			
80th	548	549	550	0.30	0.21	0.26	2.98	4.01	2.41	0.72 (1.88)	1.81 (2.15)	1.06 (1.20)
75th	545	546	547	0.28	0.19	0.24	2.53	3.63	2.14			
70th	543	544	545	0.27	0.17	0.23	2.10	3.27	1.93			
65th	541	541	542	0.25	0.15	0.21	1.74	2.86	1.71			
60th	538	539	540	0.24	0.13	0.19	1.34	2.49	1.49			
55th	536	537	537	0.23	0.11	0.18	1.09	2.19	1.32			
50th	534	535	535	0.21	0.09	0.16	0.84	1.92	1.13			
45th	532	533	533	0.20	0.08	0.15	0.50	1.58	0.96			
40th	530	531	531	0.19	0.06	0.13	0.30	1.18	0.77			
35th	527	528	528	0.17	0.04	0.12	-0.01	0.82	0.57	2.36 (2.89)	2.43 (2.86)	1.54 (1.64)
30th	525	526	526	0.16	0.02	0.10	-0.34	0.45	0.37			
25th	523	523	523	0.14	0.00	0.08	-0.70	0.09	0.17			
20th	520	521	520	0.12	-0.02	0.06	-1.14	-0.34	-0.10			
15th	516	517	517	0.10	-0.05	0.04	-1.61	-0.92	-0.36			
10th	512	513	512	0.08	-0.09	0.01	-2.25	-1.59	-0.70			
5th	506	507	506	0.04	-0.14	-0.04	-3.25	-2.53	-1.14			
M	534	535	535	0.21	0.09	0.16	0.91	1.82	1.16			
SD	15	15	16	0.09	0.13	0.11	2.46	2.50	1.38			

**Note.** Monthly Growth and Monthly Growth by Percentile Group based on estimates from earlier grades.


 - Reported values are within the validation phase.



aReading: 11<sup>th</sup> and 12<sup>th</sup> Grade 

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	566	567	567	0.25	-0.04	0.12	5.39	5.92	3.53	-0.80 (2.78)	0.98 (2.90)	0.88 (1.49)
90th	559	561	560	0.22	-0.06	0.10	4.23	5.18	3.05			
85th	555	556	556	0.21	-0.07	0.09	3.49	4.49	2.68			
80th	552	553	553	0.20	-0.08	0.08	2.98	4.01	2.41	0.72 (1.88)	1.81 (2.15)	1.06 (1.20)
75th	549	550	550	0.18	-0.09	0.07	2.53	3.63	2.14			
70th	547	547	547	0.18	-0.10	0.06	2.10	3.27	1.93			
65th	544	545	545	0.17	-0.11	0.05	1.74	2.86	1.71			
60th	542	543	542	0.16	-0.12	0.04	1.34	2.49	1.49			
55th	540	541	540	0.15	-0.12	0.03	1.09	2.19	1.32			
50th	538	538	538	0.14	-0.13	0.02	0.84	1.92	1.13			
45th	536	536	536	0.13	-0.14	0.02	0.50	1.58	0.96			
40th	533	534	533	0.13	-0.15	0.01	0.30	1.18	0.77			
35th	531	532	531	0.12	-0.15	0.00	-0.01	0.82	0.57	2.36 (2.89)	2.43 (2.86)	1.54 (1.64)
30th	529	529	529	0.11	-0.16	-0.01	-0.34	0.45	0.37			
25th	526	527	526	0.10	-0.17	-0.02	-0.70	0.09	0.17			
20th	523	524	523	0.09	-0.18	-0.03	-1.14	-0.34	-0.10			
15th	520	520	520	0.08	-0.19	-0.04	-1.61	-0.92	-0.36			
10th	516	516	515	0.06	-0.20	-0.05	-2.25	-1.59	-0.70			
5th	510	510	509	0.04	-0.23	-0.08	-3.25	-2.53	-1.14			
M	538	538	538	0.14	-0.13	0.02	0.91	1.82	1.16			
SD	15	15	16	0.06	0.05	0.05	2.46	2.50	1.38			

**Note.** Monthly Growth and Monthly Growth by Percentile Group based on estimates from earlier grades.

 - Reported values are within the validation phase.

**earlyMath Norms**

**earlyMath Subitizing: Kindergarten**

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	12	12	18	0.01	0.40	0.17	NA	NA	NA	NA	NA	NA
90th	11	12	18	0.05	0.40	0.20	NA	NA	NA			
85th	10	12	18	0.10	0.40	0.23	NA	NA	NA			
80th	10	12	18	0.10	0.40	0.23	NA	NA	NA	NA	NA	NA
75th	9	12	18	0.15	0.40	0.26	NA	NA	NA			
70th	9	12	18	0.15	0.40	0.26	NA	NA	NA			
65th	8	12	18	0.20	0.40	0.28	NA	NA	NA			
60th	8	12	18	0.20	0.40	0.28	NA	NA	NA			
55th	8	12	17	0.20	0.33	0.26	NA	NA	NA			
50th	7	11	17	0.20	0.40	0.28	NA	NA	NA			
45th	7	11	17	0.20	0.40	0.28	NA	NA	NA			
40th	6	11	17	0.25	0.40	0.31	NA	NA	NA			
35th	6	11	17	0.25	0.40	0.31	NA	NA	NA			
30th	5	10	16	0.25	0.40	0.31	NA	NA	NA	NA	NA	NA
25th	5	10	16	0.25	0.40	0.31	NA	NA	NA			
20th	4	10	16	0.28	0.42	0.34	NA	NA	NA			
15th	3	9	15	0.30	0.40	0.34	NA	NA	NA			
10th	2	8	15	0.30	0.46	0.37	NA	NA	NA			
5th	1	8	14	0.35	0.40	0.37	NA	NA	NA			
M	6.89	10.87	16.89	0.20	0.40	0.28	NA	NA	NA			
SD	3.02	1.39	1.24	0.09	0.02	0.05	NA	NA	NA			

**Note.** N (Fall, Winter, Spring) = 302, 207, 638

earlyMath Subitizing: 1<sup>st</sup> Grade

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	12	-	-	-	-	-	-	-	-	-	-	-
90th	12	-	-	-	-	-	-	-				
85th	12	-	-	-	-	-	-	-				
80th	12	-	-	-	-	-	-	-	-	-	-	-
75th	12	-	-	-	-	-	-	-				
70th	12	-	-	-	-	-	-	-				
65th	12	-	-	-	-	-	-	-				
60th	11	-	-	-	-	-	-	-				
55th	11	-	-	-	-	-	-	-				
50th	11	-	-	-	-	-	-	-				
45th	11	-	-	-	-	-	-	-				
40th	11	-	-	-	-	-	-	-				
35th	11	-	-	-	-	-	-	-				
30th	10	-	-	-	-	-	-	-	-	-	-	
25th	10	-	-	-	-	-	-	-				
20th	10	-	-	-	-	-	-	-				
15th	9	-	-	-	-	-	-	-				
10th	9	-	-	-	-	-	-	-				
5th	8	-	-	-	-	-	-	-				
M	10.84	-	-	-	-	-	-	-				
SD	1.21	-	-	-	-	-	-	-				

Note. N (Fall) = 252

earlyMath Numeral Identification: Kindergarten

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	32	49	59	0.84	0.65	0.76	1.56	1.35	1.19	0.66 (0.53)	0.36 (0.45)	0.57 (0.28)
90th	28	45	55	0.84	0.66	0.77	1.39	1.21	1.10			
85th	25	41	52	0.79	0.73	0.77	1.25	1.09	1.02			
80th	22	39	50	0.84	0.73	0.79	1.14	1.01	0.96	0.85 (0.47)	0.68 (0.39)	0.75 (0.27)
75th	20	36	48	0.79	0.79	0.79	1.05	0.92	0.90			
70th	19	34	46	0.74	0.79	0.77	0.96	0.85	0.85			
65th	18	33	44	0.74	0.75	0.75	0.89	0.78	0.81			
60th	16	31	42	0.74	0.75	0.75	0.82	0.73	0.76			
55th	15	30	41	0.74	0.73	0.74	0.75	0.67	0.72			
50th	14	28	39	0.70	0.73	0.71	0.70	0.61	0.68			
45th	13	25	37	0.60	0.79	0.68	0.64	0.55	0.64			
40th	12	23	35	0.55	0.79	0.65	0.58	0.50	0.60			
35th	11	22	34	0.55	0.79	0.65	0.53	0.44	0.56	0.72 (0.41)	0.7 (0.42)	0.67 (0.31)
30th	10	20	33	0.48	0.86	0.64	0.47	0.38	0.51			
25th	10	19	31	0.45	0.79	0.60	0.40	0.32	0.47			
20th	9	17	29	0.42	0.79	0.58	0.24	0.25	0.42			
15th	7	15	25	0.40	0.66	0.51	0.27	0.19	0.36			
10th	6	13	21	0.35	0.52	0.43	0.19	0.10	0.31			
5th	4	11	18	0.36	0.46	0.40	0.11	-0.02	0.23			
M	15.30	27.95	38.93	0.63	0.72	0.67	0.75	0.63	0.69			
SD	7.62	10.99	11.36	0.18	0.10	0.12	0.44	0.41	0.29			

Note. N (Fall, Winter, Spring) = 3710, 4120, 4521

earlyMath Numeral Identification: 1<sup>st</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	40	55	56	0.74	0.07	0.45	1.12	0.80	0.62	0.51 (0.32)	0.02 (0.32)	0.32 (0.14)
90th	38	52	54	0.70	0.13	0.45	1.00	0.71	0.59			
85th	36	50	52	0.70	0.13	0.45	0.94	0.63	0.58			
80th	36	48	50	0.60	0.13	0.40	0.86	0.57	0.55	0.54 (0.26)	0.36 (0.28)	0.42 (0.14)
75th	35	47	49	0.60	0.13	0.40	0.79	0.53	0.50			
70th	34	46	48	0.60	0.13	0.40	0.73	0.49	0.49			
65th	33	44	47	0.55	0.20	0.40	0.70	0.44	0.45			
60th	32	42	46	0.50	0.26	0.40	0.65	0.40	0.41			
55th	31	41	45	0.50	0.26	0.40	0.61	0.37	0.41			
50th	30	40	44	0.50	0.26	0.40	0.59	0.32	0.40			
45th	29	39	43	0.50	0.26	0.40	0.54	0.30	0.37			
40th	28	37	42	0.45	0.33	0.40	0.49	0.25	0.33			
35th	26	36	41	0.50	0.33	0.43	0.43	0.20	0.32			
30th	25	36	40	0.55	0.26	0.43	0.38	0.18	0.29	0.75 (0.29)	0.4 (0.28)	0.47 (0.19)
25th	23	35	39	0.60	0.26	0.45	0.35	0.12	0.29			
20th	22	35	37	0.65	0.13	0.43	0.30	0.06	0.26			
15th	20	34	36	0.70	0.13	0.45	0.26	-0.05	0.23			
10th	17	31	35	0.70	0.26	0.51	0.21	-0.13	0.21			
5th	14	29	33	0.74	0.26	0.54	0.12	-0.19	0.12			
M	28.89	40.90	44.05	0.60	0.21	0.43	0.58	0.32	0.39			
SD	7.27	7.28	6.54	0.09	0.08	0.04	0.30	0.29	0.15			

Note. N (Fall, Winter, Spring) = 2216, 522, 82533

earlyMath Match Quantity: Kindergarten

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	13	18	20	0.25	0.13	0.20	0.42	0.42	NA	0.11 (0.14)	-0.09 (0.16)	NA
90th	12	16	19	0.20	0.20	0.20	0.36	0.40	NA			
85th	11	15	18	0.20	0.20	0.20	0.32	0.30	NA			
80th	11	14	17	0.15	0.20	0.17	0.31	0.24	NA	0.16 (0.12)	0.09 (0.2)	NA
75th	10	14	16	0.20	0.13	0.17	0.29	0.24	NA			
70th	10	13	16	0.15	0.20	0.17	0.25	0.18	NA			
65th	9	12	15	0.15	0.20	0.17	0.24	0.17	NA			
60th	9	12	14	0.15	0.13	0.14	0.20	0.06	NA			
55th	9	12	14	0.15	0.13	0.14	0.19	0.06	NA			
50th	8	11	13	0.15	0.13	0.14	0.19	0.06	NA			
45th	8	11	13	0.15	0.13	0.14	0.15	0.00	NA			
40th	7	10	12	0.15	0.13	0.14	0.13	-0.06	NA			
35th	7	10	12	0.15	0.13	0.14	0.12	-0.06	NA			
30th	7	10	12	0.15	0.13	0.14	0.11	-0.06	NA	0.25 (0.11)	0.24 (0.16)	NA
25th	6	9	11	0.15	0.13	0.14	0.06	-0.12	NA			
20th	6	9	10	0.15	0.07	0.11	0.06	-0.12	NA			
15th	5	8	10	0.15	0.13	0.14	0.05	-0.18	NA			
10th	5	8	9	0.15	0.07	0.11	0.00	-0.24	NA			
5th	3	7	8	0.20	0.07	0.14	-0.06	-0.25	NA			
M	8.21	11.62	13.74	0.16	0.14	0.15	0.18	0.06	NA			
SD	2.62	3.62	3.87	0.03	0.04	0.03	0.13	0.21	NA			

Note. N (Fall, Winter, Spring) = 2736, 208, 689

earlyMath Quantity Discrimination – Most: Kindergarten

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	-	12	-	-	-	-	-	-	-	-	-
90th	-	-	12	-	-	-	-	-	-			
85th	-	-	11	-	-	-	-	-	-			
80th	-	-	11	-	-	-	-	-	-	-	-	-
75th	-	-	10	-	-	-	-	-	-			
70th	-	-	10	-	-	-	-	-	-			
65th	-	-	9	-	-	-	-	-	-			
60th	-	-	9	-	-	-	-	-	-			
55th	-	-	8	-	-	-	-	-	-			
50th	-	-	8	-	-	-	-	-	-			
45th	-	-	8	-	-	-	-	-	-			
40th	-	-	8	-	-	-	-	-	-			
35th	-	-	7	-	-	-	-	-	-			
30th	-	-	7	-	-	-	-	-	-	-	-	-
25th	-	-	7	-	-	-	-	-	-			
20th	-	-	6	-	-	-	-	-	-			
15th	-	-	6	-	-	-	-	-	-			
10th	-	-	5	-	-	-	-	-	-			
5th	-	-	3	-	-	-	-	-	-			
M	-	-	8.21	-	-	-	-	-	-			
SD	-	-	2.85	-	-	-	-	-	-			

Note. N (Spring) = 548

earlyMath Quantity Discrimination – Most: 1<sup>st</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	24	-	-	-	-	-	-	-	-	-	-	-
90th	24	-	-	-	-	-	-	-				
85th	22	-	-	-	-	-	-	-				
80th	22	-	-	-	-	-	-	-	-	-	-	-
75th	20	-	-	-	-	-	-	-				
70th	20	-	-	-	-	-	-	-				
65th	18	-	-	-	-	-	-	-				
60th	18	-	-	-	-	-	-	-				
55th	18	-	-	-	-	-	-	-				
50th	16	-	-	-	-	-	-	-				
45th	16	-	-	-	-	-	-	-				
40th	14	-	-	-	-	-	-	-				
35th	14	-	-	-	-	-	-	-				
30th	14	-	-	-	-	-	-	-	-	-	-	
25th	12	-	-	-	-	-	-	-				
20th	12	-	-	-	-	-	-	-				
15th	10	-	-	-	-	-	-	-				
10th	10	-	-	-	-	-	-	-				
5th	8	-	-	-	-	-	-	-				
M	16.27	-	-	-	-	-	-	-				
SD	5.19	-	-	-	-	-	-	-				

Note. N (Fall) =252



earlyMath Quantity Discrimination – Least: Kindergarten

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	-	11	-	-	-	-	-	-	-	-	-
90th	-	-	10	-	-	-	-	-	-			
85th	-	-	9	-	-	-	-	-	-			
80th	-	-	9	-	-	-	-	-	-	-	-	-
75th	-	-	8	-	-	-	-	-	-			
70th	-	-	8	-	-	-	-	-	-			
65th	-	-	8	-	-	-	-	-	-			
60th	-	-	7	-	-	-	-	-	-			
55th	-	-	7	-	-	-	-	-	-			
50th	-	-	7	-	-	-	-	-	-			
45th	-	-	7	-	-	-	-	-	-			
40th	-	-	6	-	-	-	-	-	-			
35th	-	-	6	-	-	-	-	-	-			
30th	-	-	6	-	-	-	-	-	-	-	-	-
25th	-	-	5	-	-	-	-	-	-			
20th	-	-	5	-	-	-	-	-	-			
15th	-	-	5	-	-	-	-	-	-			
10th	-	-	4	-	-	-	-	-	-			
5th	-	-	3	-	-	-	-	-	-			
M	-	-	6.93	-	-	-	-	-	-			
SD	-	-	2.40	-	-	-	-	-	-			

Note. N (Spring) = 547

earlyMath Number Sequence: Kindergarten

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	10	13	13	0.15	0.00	0.09	0.43	0.27	0.27	0.1 (0.1)	0.02 (0.05)	0.07 (0.04)
90th	9	12	13	0.15	0.07	0.11	0.39	0.23	0.24			
85th	8	11	13	0.15	0.13	0.14	0.34	0.20	0.23			
80th	8	11	12	0.15	0.07	0.11	0.32	0.18	0.21	0.21 (0.12)	0.1 (0.08)	0.16 (0.05)
75th	7	10	12	0.15	0.13	0.14	0.29	0.17	0.20			
70th	7	10	12	0.15	0.13	0.14	0.27	0.14	0.19			
65th	6	10	11	0.20	0.07	0.14	0.25	0.13	0.18			
60th	6	9	11	0.15	0.13	0.14	0.23	0.12	0.17			
55th	5	9	11	0.20	0.13	0.17	0.21	0.11	0.16			
50th	5	9	10	0.20	0.07	0.14	0.19	0.09	0.15			
45th	5	8	10	0.15	0.13	0.14	0.17	0.07	0.14			
40th	4	8	10	0.20	0.13	0.17	0.16	0.06	0.13			
35th	4	8	9	0.20	0.07	0.14	0.13	0.06	0.12			
30th	3	7	9	0.20	0.13	0.17	0.12	0.05	0.11	0.31 (0.16)	0.18 (0.11)	0.21 (0.07)
25th	3	7	8	0.20	0.07	0.14	0.09	0.00	0.10			
20th	2	6	8	0.20	0.13	0.17	0.07	0.00	0.09			
15th	2	6	8	0.20	0.13	0.17	0.06	0.00	0.07			
10th	1	5	7	0.20	0.13	0.17	0.00	0.00	0.06			
5th	0	4	6	0.20	0.13	0.17	0.00	-0.05	0.03			
M	5.00	8.58	10.16	0.18	0.10	0.15	0.20	0.10	0.15			
SD	2.77	2.39	2.12	0.03	0.04	0.02	0.13	0.09	0.07			

Note. N (Fall, Winter, Spring) = 3027, 3965, 4414

earlyMath Number Sequence: 1<sup>st</sup> Grade

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	12	14	14	0.10	0.00	0.06	0.42	0.23	NA	0.08 (0.07)	-0.02 (0)	NA
90th	11	14	14	0.15	0.00	0.09	0.37	0.21	NA			
85th	10	13	14	0.15	0.07	0.11	0.34	0.18	NA			
80th	9	13	13	0.20	0.00	0.11	0.31	0.13	NA	0.23 (0.11)	0.07 (0.07)	NA
75th	8	13	13	0.25	0.00	0.14	0.29	0.13	NA			
70th	8	12	13	0.20	0.07	0.14	0.27	0.12	NA			
65th	7	12	13	0.25	0.07	0.17	0.24	0.11	NA			
60th	7	11	12	0.20	0.07	0.14	0.22	0.07	NA			
55th	6	11	12	0.25	0.07	0.17	0.21	0.06	NA			
50th	6	11	12	0.25	0.07	0.17	0.18	0.06	NA			
45th	5	10	12	0.25	0.13	0.20	0.17	0.06	NA			
40th	5	10	11	0.25	0.07	0.17	0.15	0.00	NA			
35th	5	9	11	0.20	0.13	0.17	0.12	0.00	NA	0.26 (0.15)	0.14 (0.12)	NA
30th	4	9	10	0.25	0.07	0.17	0.11	0.00	NA			
25th	4	8	9	0.20	0.07	0.14	0.10	0.00	NA			
20th	3	7	9	0.20	0.13	0.17	0.06	-0.06	NA			
15th	3	7	8	0.20	0.07	0.14	0.06	-0.06	NA			
10th	3	6	7	0.15	0.07	0.11	0.00	-0.08	NA			
5th	2	5	6	0.15	0.07	0.11	0.00	-0.09	NA			
M	6.19	10.26	11.21	0.20	0.06	0.14	0.20	0.06	NA			
SD	2.95	2.73	2.42	0.05	0.04	0.04	0.13	0.10	NA			

Note. N (Fall, Winter, Spring) = 2309, 2750, 726

earlyMath Composing: Kindergarten

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	5	8	-	0.15	-	-	NA	-	-	NA	-	-
90th	5	8	-	0.15	-	-	NA	-	-			
85th	4	8	-	0.20	-	-	NA	-	-			
80th	4	8	-	0.20	-	-	NA	-	-	NA	-	-
75th	4	8	-	0.20	-	-	NA	-	-			
70th	3	7	-	0.20	-	-	NA	-	-			
65th	3	7	-	0.20	-	-	NA	-	-			
60th	3	7	-	0.20	-	-	NA	-	-			
55th	2	7	-	0.25	-	-	NA	-	-			
50th	1	7	-	0.30	-	-	NA	-	-			
45th	0	7	-	0.35	-	-	NA	-	-			
40th	0	7	-	0.35	-	-	NA	-	-			
35th	0	6	-	0.30	-	-	NA	-	-			
30th	0	6	-	0.30	-	-	NA	-	-	NA	-	-
25th	0	6	-	0.30	-	-	NA	-	-			
20th	0	5	-	0.25	-	-	NA	-	-			
15th	0	5	-	0.25	-	-	NA	-	-			
10th	0	4	-	0.20	-	-	NA	-	-			
5th	0	2	-	0.10	-	-	NA	-	-			
M	1.85	6.27	-	0.23	-	-	NA	-	-			
SD	1.95	1.94	-	0.07	-	-	NA	-	-			

Note. N (Fall, Winter) = 2570, 155

earlyMath Composing: 1<sup>st</sup> Grade

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	7	-	-	-	-	-	-	-	-	-	-	-
90th	7	-	-	-	-	-	-	-				
85th	7	-	-	-	-	-	-	-				
80th	7	-	-	-	-	-	-	-	-	-	-	-
75th	6	-	-	-	-	-	-	-				
70th	6	-	-	-	-	-	-	-				
65th	6	-	-	-	-	-	-	-				
60th	5	-	-	-	-	-	-	-				
55th	5	-	-	-	-	-	-	-				
50th	5	-	-	-	-	-	-	-				
45th	4	-	-	-	-	-	-	-				
40th	4	-	-	-	-	-	-	-				
35th	3	-	-	-	-	-	-	-				
30th	3	-	-	-	-	-	-	-	-	-	-	
25th	2	-	-	-	-	-	-	-				
20th	2	-	-	-	-	-	-	-				
15th	0	-	-	-	-	-	-	-				
10th	0	-	-	-	-	-	-	-				
5th	0	-	-	-	-	-	-	-				
M	4.16	-	-	-	-	-	-	-				
SD	2.45	-	-	-	-	-	-	-				

Note. N (Fall) = 253

earlyMath Decomposing: Kindergarten

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	7	8	8	0.05	0.00	0.03	0.27	0.25	0.15	0.02 (0.05)	0 (0.04)	0.03 (0.03)
90th	6	8	8	0.09	0.00	0.05	0.27	0.21	0.15			
85th	6	7	8	0.05	0.07	0.06	0.24	0.19	0.14			
80th	6	7	8	0.05	0.07	0.06	0.21	0.17	0.12	0.12 (0.06)	0.09 (0.07)	0.08 (0.03)
75th	5	7	8	0.09	0.07	0.08	0.18	0.14	0.12			
70th	5	6	8	0.05	0.13	0.09	0.16	0.13	0.12			
65th	5	6	7	0.05	0.07	0.06	0.16	0.12	0.09			
60th	5	6	7	0.05	0.07	0.06	0.11	0.10	0.09			
55th	5	5	7	0.00	0.13	0.06	0.11	0.09	0.09			
50th	5	5	7	0.02	0.13	0.07	0.10	0.06	0.09			
45th	4	5	7	0.05	0.12	0.08	0.09	0.06	0.06			
40th	4	4	6	0.00	0.13	0.06	0.05	0.05	0.06			
35th	4	4	6	0.00	0.13	0.06	0.05	0.05	0.06			
30th	4	4	6	0.00	0.13	0.06	0.05	0.00	0.06	0.18 (0.11)	0.17 (0.11)	0.15 (0.05)
25th	4	3	5	-0.05	0.13	0.03	0.00	0.00	0.06			
20th	3	3	5	0.00	0.13	0.06	0.00	0.00	0.06			
15th	3	2	4	-0.05	0.13	0.03	0.00	0.00	0.04			
10th	2	1	4	-0.05	0.20	0.06	0.00	0.00	0.03			
5th	2	1	3	-0.04	0.13	0.03	-0.09	-0.06	0.02			
M	4.45	4.79	6.30	0.02	0.10	0.06	0.10	0.08	0.08			
SD	1.60	2.27	1.69	0.05	0.05	0.02	0.11	0.09	0.04			

Note. N (Fall, Winter, Spring) = 58, 2114, 2792

earlyMath Decomposing: 1<sup>st</sup> Grade

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	8	13	15	0.25	0.13	0.20	0.43	0.33	0.29	0.17 (0.13)	0.08 (0.13)	0.15 (0.08)
90th	8	12	14	0.20	0.13	0.17	0.39	0.30	0.27			
85th	7	11	14	0.20	0.20	0.20	0.35	0.27	0.25			
80th	6	11	13	0.25	0.13	0.20	0.32	0.25	0.23	0.23 (0.13)	0.11 (0.12)	0.17 (0.07)
75th	6	10	12	0.20	0.13	0.17	0.29	0.22	0.22			
70th	6	9	11	0.17	0.13	0.15	0.27	0.19	0.21			
65th	5	9	11	0.20	0.13	0.17	0.25	0.18	0.20			
60th	5	9	10	0.20	0.07	0.14	0.23	0.16	0.18			
55th	4	8	10	0.20	0.13	0.17	0.21	0.13	0.18			
50th	4	8	9	0.20	0.07	0.14	0.19	0.12	0.17			
45th	3	8	9	0.25	0.07	0.17	0.17	0.11	0.15			
40th	3	7	9	0.20	0.13	0.17	0.16	0.08	0.14			
35th	3	7	8	0.20	0.07	0.14	0.12	0.06	0.13			
30th	2	6	8	0.20	0.13	0.17	0.11	0.06	0.12	0.23 (0.16)	0.17 (0.13)	0.17 (0.09)
25th	2	6	7	0.20	0.07	0.14	0.08	0.00	0.11			
20th	1	5	7	0.18	0.13	0.16	0.06	0.00	0.09			
15th	1	4	6	0.15	0.13	0.14	0.05	0.00	0.08			
10th	1	3	5	0.10	0.13	0.11	0.00	-0.06	0.06			
5th	0	2	4	0.10	0.13	0.11	0.00	-0.07	0.03			
M	3.97	7.79	9.58	0.19	0.12	0.16	0.20	0.12	0.16			
SD	2.54	3.13	3.31	0.04	0.04	0.02	0.14	0.13	0.08			

Note. N (Fall, Winter, Spring) = 2114, 2792, 3105

earlyMath Counting Objects: Kindergarten

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	10	-	-	-	-	-	-	-	-	-	-	-
90th	10	-	-	-	-	-	-	-	-			
85th	10	-	-	-	-	-	-	-	-			
80th	10	-	-	-	-	-	-	-	-	-	-	-
75th	10	-	-	-	-	-	-	-	-			
70th	10	-	-	-	-	-	-	-	-			
65th	10	-	-	-	-	-	-	-	-			
60th	9	-	-	-	-	-	-	-	-			
55th	9	-	-	-	-	-	-	-	-			
50th	8	-	-	-	-	-	-	-	-			
45th	8	-	-	-	-	-	-	-	-			
40th	8	-	-	-	-	-	-	-	-			
35th	8	-	-	-	-	-	-	-	-			
30th	8	-	-	-	-	-	-	-	-	-	-	-
25th	6	-	-	-	-	-	-	-	-			
20th	6	-	-	-	-	-	-	-	-			
15th	6	-	-	-	-	-	-	-	-			
10th	4	-	-	-	-	-	-	-	-			
5th	4	-	-	-	-	-	-	-	-			
M	8.11	-	-	-	-	-	-	-	-			
SD	2.02	-	-	-	-	-	-	-	-			

Note. N (Fall) = 710



earlyMath Verbal Addition: 1<sup>st</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	14	15	-	0.04	-	-	0.30	-	-	0 (0.16)	-
90th	-	13	14	-	0.07	-	-	0.25	-			
85th	-	12	14	-	0.11	-	-	0.24	-			
80th	-	12	14	-	0.13	-	-	0.22	-	-	0.09 (0.14)	-
75th	-	11	13	-	0.13	-	-	0.20	-			
70th	-	11	12	-	0.07	-	-	0.19	-			
65th	-	10	12	-	0.13	-	-	0.17	-			
60th	-	10	12	-	0.13	-	-	0.15	-			
55th	-	10	12	-	0.13	-	-	0.13	-			
50th	-	9	12	-	0.20	-	-	0.12	-			
45th	-	9	10	-	0.07	-	-	0.08	-			
40th	-	8	10	-	0.13	-	-	0.06	-			
35th	-	8	10	-	0.15	-	-	0.06	-			
30th	-	7	9	-	0.13	-	-	0.06	-	-	0.15 (0.14)	-
25th	-	7	8	-	0.07	-	-	0.00	-			
20th	-	6	8	-	0.13	-	-	0.00	-			
15th	-	5	8	-	0.20	-	-	-0.06	-			
10th	-	5	6	-	0.07	-	-	-0.08	-			
5th	-	4	6	-	0.13	-	-	-0.15	-			
M	-	8.90	10.65	-	0.12	-	-	0.10	-			
SD	-	3.05	3.05	-	0.04	-	-	0.13	-			

Note. N (Winter, Spring) = 161, 722

earlyMath Verbal Subtraction: 1<sup>st</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	11	14	-	0.20	-	-	0.25	-	-	0.03 (0.07)	-
90th	-	10	14	-	0.26	-	-	0.24	-			
85th	-	10	12	-	0.15	-	-	0.23	-			
80th	-	9	12	-	0.20	-	-	0.17	-	-	0.06 (0.11)	-
75th	-	8	12	-	0.26	-	-	0.14	-			
70th	-	7	10	-	0.20	-	-	0.12	-			
65th	-	7	10	-	0.20	-	-	0.12	-			
60th	-	7	10	-	0.20	-	-	0.10	-			
55th	-	6	10	-	0.26	-	-	0.08	-			
50th	-	6	8	-	0.13	-	-	0.07	-			
45th	-	6	8	-	0.13	-	-	0.06	-			
40th	-	6	8	-	0.13	-	-	0.02	-			
35th	-	5	8	-	0.20	-	-	0.00	-			
30th	-	5	8	-	0.20	-	-	0.00	-	-	0.12 (0.13)	-
25th	-	5	8	-	0.20	-	-	0.00	-			
20th	-	5	7	-	0.13	-	-	0.00	-			
15th	-	4	6	-	0.13	-	-	-0.06	-			
10th	-	3	6	-	0.20	-	-	-0.07	-			
5th	-	2	4	-	0.13	-	-	-0.11	-			
M	-	6.39	9.21	-	0.19	-	-	0.07	-			
SD	-	2.63	2.93	-	0.05	-	-	0.11	-			

Note. N (Winter, Spring) = 161, 721

earlyMath Place Value: 1<sup>st</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	6	7	-	0.07	-	-	0.19	-	-	0.01 (0.07)	-
90th	-	5	6	-	0.10	-	-	0.17	-			
85th	-	5	6	-	0.07	-	-	0.16	-			
80th	-	4	6	-	0.10	-	-	0.14	-	-	0.08 (0.07)	-
75th	-	4	5	-	0.07	-	-	0.12	-			
70th	-	4	5	-	0.10	-	-	0.12	-			
65th	-	4	5	-	0.07	-	-	0.10	-			
60th	-	4	5	-	0.07	-	-	0.09	-			
55th	-	3	4	-	0.07	-	-	0.09	-			
50th	-	3	4	-	0.07	-	-	0.07	-			
45th	-	3	4	-	0.10	-	-	0.06	-			
40th	-	3	4	-	0.07	-	-	0.06	-			
35th	-	3	4	-	0.07	-	-	0.05	-			
30th	-	2	4	-	0.10	-	-	0.03	-	-	0.13 (0.08)	-
25th	-	2	3	-	0.07	-	-	0.03	-			
20th	-	2	3	-	0.07	-	-	0.02	-			
15th	-	2	3	-	0.03	-	-	0.00	-			
10th	-	2	3	-	0.07	-	-	0.00	-			
5th	-	1	2	-	0.07	-	-	-0.03	-			
M	-	2.98	4.16	-	0.07	-	-	0.08	-			
SD	-	1.30	1.34	-	0.02	-	-	0.06	-			

Note. N (Winter, Spring) = 2615, 2159

earlyMath Visual Story Problems: 1<sup>st</sup> Grade

%ile	Scores (# Correct)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	-	6	6	-	0.00	-	-	0.14	-	-	-0.03 (0.04)	-
90th	-	6	6	-	0.00	-	-	0.13	-			
85th	-	6	6	-	0.00	-	-	0.08	-			
80th	-	6	6	-	0.00	-	-	0.07	-	-	0.04 (0.04)	-
75th	-	6	6	-	0.03	-	-	0.07	-			
70th	-	5	5	-	0.00	-	-	0.07	-			
65th	-	5	5	-	0.00	-	-	0.07	-			
60th	-	5	5	-	0.00	-	-	0.06	-			
55th	-	5	5	-	0.00	-	-	0.06	-			
50th	-	4	5	-	0.07	-	-	0.00	-			
45th	-	4	5	-	0.07	-	-	0.00	-			
40th	-	4	4	-	0.00	-	-	0.00	-			
35th	-	4	4	-	0.00	-	-	0.00	-			
30th	-	3	4	-	0.07	-	-	0.00	-	-	0.11 (0.02)	-
25th	-	3	4	-	0.07	-	-	0.00	-			
20th	-	3	4	-	0.07	-	-	0.00	-			
15th	-	2	3	-	0.07	-	-	0.00	-			
10th	-	2	3	-	0.07	-	-	-0.06	-			
5th	-	1	2	-	0.07	-	-	-0.07	-			
M	-	4.05	4.56	-	0.03	-	-	0.04	-			
SD	-	1.61	1.25	-	0.03	-	-	0.06	-			

Note. N (Winter, Spring) = 706, 2958

earlyMath Composite: Kindergarten

%ile	Scaled Scores			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	51	91	122	1.97	2.05	2.01	1.92	1.32	1.31	-0.07 (0.26)	0.38 (0.25)	0.75 (0.2)
90th	48	83	111	1.76	1.81	1.78	1.76	1.21	1.24			
85th	46	78	103	1.61	1.64	1.63	1.65	1.11	1.18			
80th	44	74	97	1.50	1.52	1.50	1.53	1.02	1.13	1.23 (0.47)	0.7 (0.33)	0.94 (0.23)
75th	42	70	92	1.40	1.41	1.40	1.45	0.94	1.09			
70th	41	67	87	1.31	1.31	1.31	1.38	0.88	1.05			
65th	40	64	83	1.22	1.21	1.22	1.32	0.81	1.02			
60th	39	62	79	1.15	1.13	1.14	1.25	0.75	0.97			
55th	37	59	75	1.07	1.04	1.06	1.19	0.70	0.94			
50th	36	56	71	0.99	0.96	0.98	1.12	0.65	0.90			
45th	35	54	67	0.92	0.88	0.90	1.06	0.60	0.87			
40th	34	51	63	0.84	0.79	0.82	1.00	0.55	0.83			
35th	33	48	59	0.77	0.71	0.74	0.94	0.50	0.79			
30th	32	45	55	0.68	0.61	0.65	0.88	0.45	0.76	1.13 (0.53)	0.83 (0.44)	0.94 (0.31)
25th	30	42	50	0.59	0.51	0.56	0.78	0.40	0.71			
20th	29	39	45	0.49	0.40	0.46	0.70	0.34	0.67			
15th	27	35	39	0.38	0.28	0.33	0.61	0.27	0.61			
10th	25	29	31	0.23	0.11	0.18	0.51	0.19	0.55			
5th	21	22	20	0.01	-0.13	-0.05	0.36	0.07	0.47			
M	36	56	71	0.99	0.96	0.98	1.13	0.67	0.90			
SD	9	20	30	0.49	0.54	0.51	0.46	0.37	0.25			

Note. N (Fall, Winter, Spring) = 2573, 3867, 3791

earlyMath Composite: 1<sup>st</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	80	105	128	1.23	1.53	1.36	1.39	0.81	0.86	-0.07 (0.36)	-0.06 (0.26)	-0.07 (0.26)
90th	71	95	116	1.19	1.34	1.26	1.25	0.68	0.78			
85th	65	89	107	1.17	1.21	1.19	1.11	0.60	0.72			
80th	60	84	100	1.15	1.11	1.13	1.01	0.52	0.64	0.58 (0.42)	0.18 (0.31)	0.34 (0.26)
75th	56	79	94	1.13	1.02	1.08	0.93	0.46	0.58			
70th	52	75	89	1.12	0.94	1.04	0.84	0.39	0.53			
65th	49	71	84	1.11	0.87	1.00	0.77	0.33	0.49			
60th	46	68	80	1.09	0.80	0.97	0.70	0.29	0.44			
55th	42	64	75	1.08	0.73	0.93	0.62	0.24	0.40			
50th	39	61	71	1.07	0.66	0.89	0.55	0.19	0.36			
45th	36	57	66	1.06	0.60	0.86	0.47	0.13	0.31			
40th	33	54	62	1.04	0.53	0.82	0.41	0.09	0.26			
35th	30	50	57	1.03	0.46	0.78	0.34	0.06	0.21			
30th	26	47	53	1.02	0.39	0.75	0.26	0.00	0.14	0.97 (0.48)	0.38 (0.39)	0.65 (0.3)
25th	22	43	47	1.00	0.31	0.70	0.17	-0.06	0.09			
20th	18	38	41	0.98	0.22	0.66	0.06	-0.12	0.03			
15th	13	33	35	0.96	0.11	0.60	-0.06	-0.19	-0.06			
10th	7	26	26	0.94	-0.01	0.53	-0.21	-0.26	-0.15			
5th	1.0	16	13	0.90	-0.21	0.43	-0.37	-0.37	-0.28			
M	39	61	71	1.07	0.66	0.89	0.54	0.20	0.33			
SD	24	26	34	0.08	0.43	0.23	0.53	0.35	0.34			

Note. N (Fall, Winter, Spring) = 2060, 2766, 2308

**aMath Norms**

**aMath: Kindergarten**

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	188	192	196	0.23	0.22	0.23	3.05	3.02	2.14	0.62 (0.66)	0.54 (0.84)	0.76 (0.35)
90th	187	191	194	0.21	0.21	0.21	2.67	2.48	1.96			
85th	186	190	194	0.21	0.22	0.22	2.37	2.16	1.79			
80th	185	189	193	0.22	0.24	0.23	2.16	1.91	1.66	1.22 (0.74)	0.86 (0.68)	1.12 (0.39)
75th	184	189	192	0.24	0.23	0.24	1.96	1.72	1.56			
70th	183	188	192	0.25	0.22	0.24	1.82	1.55	1.47			
65th	182	188	191	0.27	0.22	0.25	1.68	1.39	1.38			
60th	181	187	190	0.29	0.20	0.25	1.52	1.25	1.31			
55th	181	187	190	0.30	0.19	0.26	1.39	1.13	1.23			
50th	180	186	189	0.31	0.20	0.26	1.28	1.02	1.16			
45th	179	185	189	0.31	0.22	0.27	1.18	0.89	1.08			
40th	178	185	188	0.31	0.23	0.28	1.03	0.77	1.01			
35th	177	184	188	0.31	0.26	0.29	0.90	0.66	0.95	2.03 (1.32)	2.00 (1.37)	1.70 (0.63)
30th	177	183	187	0.29	0.31	0.30	0.77	0.55	0.88			
25th	176	181	187	0.29	0.34	0.31	0.61	0.42	0.81			
20th	175	180	186	0.27	0.37	0.31	0.45	0.29	0.74			
15th	173	179	185	0.25	0.40	0.32	0.27	0.13	0.65			
10th	172	177	183	0.24	0.42	0.32	0.08	-0.05	0.54			
5th	170	174	181	0.21	0.41	0.30	-0.21	-0.35	0.40			
M	180	185	189	0.26	0.27	0.27	1.32	1.13	1.20			
SD	5	5	4	0.04	0.08	0.04	0.96	0.99	0.52			

**Note.** N (Fall, Winter, Spring) = 3427, 6845, 6556

aMath: 1<sup>st</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	196	202	206	0.27	0.26	0.27	2.55	2.58	1.78	0.93 (0.69)	0.57 (0.72)	0.94 (0.34)
90th	194	201	204	0.30	0.22	0.27	2.26	2.20	1.65			
85th	194	199	203	0.29	0.21	0.26	2.04	1.95	1.55			
80th	193	199	202	0.29	0.21	0.26	1.85	1.75	1.45	1.10 (0.68)	1.02 (0.75)	1.06 (0.39)
75th	192	198	201	0.28	0.22	0.26	1.72	1.59	1.39			
70th	192	197	201	0.27	0.24	0.26	1.60	1.45	1.32			
65th	191	196	200	0.25	0.27	0.26	1.48	1.32	1.25			
60th	190	195	199	0.24	0.29	0.26	1.37	1.20	1.19			
55th	190	194	199	0.23	0.29	0.26	1.26	1.08	1.14			
50th	189	194	198	0.23	0.29	0.25	1.14	0.97	1.08			
45th	189	193	197	0.23	0.27	0.24	1.05	0.86	1.02			
40th	188	193	196	0.24	0.23	0.23	0.94	0.74	0.96			
35th	188	192	195	0.22	0.21	0.22	0.84	0.63	0.90	1.56 (0.92)	1.35 (1.05)	1.24 (0.50)
30th	187	191	195	0.21	0.20	0.20	0.74	0.52	0.84			
25th	187	191	194	0.21	0.20	0.20	0.62	0.40	0.78			
20th	186	190	193	0.21	0.21	0.21	0.49	0.28	0.71			
15th	185	189	192	0.22	0.20	0.21	0.36	0.15	0.63			
10th	183	188	191	0.24	0.18	0.22	0.21	-0.02	0.53			
5th	181	187	190	0.31	0.15	0.24	0.05	-0.24	0.41			
M	189	194	198	0.25	0.23	0.24	1.19	1.04	1.09			
SD	4	4	5	0.03	0.04	0.02	0.75	0.84	0.41			

Note. N (Fall, Winter, Spring) = 6457, 8229, 8623



aMath: 2<sup>nd</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	205	209	212	0.19	0.20	0.19	2.27	2.07	1.53	0.64 (0.61)	0.43 (0.59)	0.66 (0.31)
90th	204	208	211	0.22	0.18	0.20	2.02	1.80	1.40			
85th	202	207	210	0.23	0.17	0.20	1.84	1.59	1.31			
80th	202	206	209	0.23	0.18	0.21	1.69	1.44	1.22	1.03 (0.69)	0.79 (0.66)	0.89 (0.34)
75th	201	206	208	0.23	0.18	0.21	1.56	1.30	1.15			
70th	200	205	208	0.22	0.19	0.21	1.42	1.17	1.08			
65th	200	204	207	0.21	0.20	0.21	1.30	1.05	1.02			
60th	199	203	206	0.19	0.21	0.20	1.20	0.96	0.97			
55th	199	202	206	0.19	0.22	0.20	1.09	0.86	0.92			
50th	198	202	205	0.19	0.21	0.20	0.99	0.76	0.86			
45th	197	201	204	0.21	0.20	0.20	0.89	0.66	0.81			
40th	196	200	203	0.22	0.19	0.21	0.78	0.56	0.75			
35th	195	200	202	0.23	0.18	0.21	0.68	0.46	0.70	1.27 (0.80)	1.05 (0.83)	1.00 (0.45)
30th	194	199	202	0.24	0.18	0.21	0.57	0.36	0.65			
25th	194	198	201	0.22	0.17	0.20	0.46	0.25	0.59			
20th	193	197	200	0.19	0.19	0.19	0.35	0.15	0.52			
15th	192	196	199	0.17	0.22	0.19	0.23	0.03	0.45			
10th	191	194	197	0.18	0.19	0.18	0.07	-0.10	0.37			
5th	189	193	195	0.19	0.12	0.16	-0.13	-0.32	0.26			
M	197	202	204	0.21	0.19	0.20	1.02	0.80	0.87			
SD	4	5	5	0.02	0.02	0.01	0.72	0.71	0.38			

Note. N (Fall, Winter, Spring) = 8309, 9386, 9600

aMath: 3rd Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	212	215	219	0.17	0.25	0.20	2.38	2.15	1.65	0.54 (0.59)	0.49 (0.75)	0.70 (0.43)
90th	211	214	217	0.19	0.20	0.19	2.09	1.84	1.51			
85th	210	214	216	0.20	0.17	0.18	1.89	1.63	1.39			
80th	209	213	215	0.19	0.18	0.19	1.73	1.45	1.30	1.09 (0.68)	0.72 (0.64)	0.91 (0.37)
75th	208	212	215	0.20	0.19	0.19	1.58	1.31	1.23			
70th	207	211	214	0.20	0.20	0.20	1.44	1.17	1.15			
65th	207	211	214	0.20	0.20	0.20	1.33	1.04	1.07			
60th	206	210	213	0.20	0.20	0.20	1.21	0.92	1.00			
55th	205	209	212	0.21	0.19	0.20	1.10	0.81	0.94			
50th	204	209	212	0.23	0.19	0.21	1.00	0.71	0.88			
45th	203	208	211	0.24	0.18	0.21	0.89	0.61	0.82			
40th	203	208	210	0.24	0.18	0.22	0.79	0.51	0.76			
35th	202	207	210	0.25	0.19	0.22	0.68	0.41	0.69	1.27 (0.92)	1.04 (0.92)	1.00 (0.52)
30th	201	206	209	0.26	0.19	0.23	0.57	0.31	0.63			
25th	200	205	208	0.25	0.20	0.23	0.44	0.20	0.56			
20th	199	203	207	0.21	0.21	0.21	0.32	0.08	0.49			
15th	198	201	205	0.17	0.23	0.20	0.19	-0.05	0.41			
10th	196	200	202	0.17	0.18	0.18	0.03	-0.21	0.32			
5th	195	198	200	0.16	0.14	0.15	-0.17	-0.40	0.20			
M	204	208	211	0.21	0.19	0.20	1.03	0.77	0.90			
SD	5	5	5	0.03	0.02	0.02	0.76	0.76	0.44			

Note. N (Fall, Winter, Spring) = 8492, 7485, 8105

aMath: 4<sup>th</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	217	222	232	0.27	0.62	0.42	2.59	3.25	2.29	0.86 (0.88)	1.56 (1.15)	1.40 (0.69)
90th	216	221	229	0.27	0.50	0.37	2.31	2.83	2.05			
85th	215	220	226	0.26	0.40	0.32	2.07	2.54	1.88			
80th	214	219	225	0.24	0.38	0.30	1.89	2.28	1.74	1.05 (0.79)	1.42 (0.94)	1.23 (0.54)
75th	213	218	224	0.24	0.37	0.29	1.71	2.08	1.63			
70th	213	217	223	0.21	0.39	0.29	1.54	1.91	1.54			
65th	212	216	222	0.19	0.40	0.28	1.40	1.74	1.45			
60th	212	215	221	0.19	0.39	0.27	1.26	1.58	1.37			
55th	211	215	221	0.19	0.37	0.27	1.14	1.43	1.28			
50th	211	214	220	0.19	0.34	0.26	1.01	1.29	1.20			
45th	210	214	219	0.19	0.34	0.25	0.90	1.15	1.11			
40th	209	213	218	0.18	0.32	0.24	0.78	1.01	1.03			
35th	208	212	217	0.18	0.30	0.23	0.66	0.89	0.94	1.27 (0.98)	1.20 (1.04)	1.09 (0.62)
30th	207	211	215	0.18	0.29	0.23	0.55	0.74	0.85			
25th	206	210	214	0.19	0.28	0.23	0.43	0.60	0.76			
20th	205	209	213	0.20	0.23	0.21	0.30	0.46	0.66			
15th	203	207	211	0.22	0.20	0.21	0.15	0.29	0.55			
10th	201	205	208	0.23	0.19	0.21	-0.04	0.08	0.41			
5th	199	202	205	0.17	0.17	0.17	-0.29	-0.15	0.26			
M	210	214	219	0.21	0.34	0.27	1.08	1.38	1.21			
SD	5	5	7	0.03	0.11	0.06	0.86	1.02	0.60			

Note. N (Fall, Winter, Spring) = 8212, 7435, 7910

aMath: 5<sup>th</sup> Grade

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	226	234	240	0.40	0.42	0.41	3.25	3.15	2.36	1.20 (1.13)	0.85 (0.88)	1.28 (0.60)
90th	224	231	238	0.37	0.44	0.40	2.89	2.72	2.17			
85th	223	229	236	0.32	0.45	0.38	2.58	2.41	2.03			
80th	222	227	234	0.25	0.50	0.36	2.34	2.16	1.89	1.40 (0.93)	1.28 (1.00)	1.34 (0.61)
75th	221	226	232	0.23	0.44	0.32	2.14	1.95	1.77			
70th	220	225	231	0.24	0.42	0.32	1.97	1.76	1.66			
65th	219	224	230	0.24	0.40	0.31	1.80	1.59	1.57			
60th	218	223	228	0.26	0.33	0.29	1.64	1.42	1.47			
55th	217	223	227	0.29	0.27	0.28	1.49	1.26	1.37			
50th	216	222	226	0.30	0.24	0.28	1.34	1.11	1.28			
45th	215	221	225	0.31	0.24	0.28	1.17	0.96	1.19			
40th	214	220	224	0.31	0.24	0.28	1.04	0.82	1.10			
35th	213	219	223	0.30	0.26	0.28	0.89	0.68	1.00			
30th	212	218	222	0.31	0.28	0.29	0.73	0.53	0.90	1.50 (1.17)	1.33 (1.28)	1.20 (0.72)
25th	211	216	221	0.27	0.33	0.30	0.58	0.39	0.79			
20th	209	215	220	0.26	0.33	0.29	0.40	0.24	0.69			
15th	208	213	217	0.23	0.30	0.26	0.24	0.07	0.56			
10th	206	210	214	0.23	0.25	0.24	0.05	-0.10	0.42			
5th	202	207	209	0.25	0.16	0.21	-0.22	-0.37	0.24			
M	216	221	226	0.28	0.33	0.30	1.40	1.21	1.29			
SD	6	7	8	0.05	0.09	0.05	1.05	1.06	0.64			

Note. N (Fall, Winter, Spring) = 7698, 7013, 7740

aMath: 6<sup>th</sup> Grade 


%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	237	241	242	0.21	0.06	0.14	2.88	2.48	1.70	0.44 (0.88)	0.12 (0.65)	0.37 (0.43)
90th	234	239	241	0.25	0.09	0.18	2.50	2.03	1.49			
85th	232	237	239	0.26	0.11	0.19	2.20	1.79	1.32			
80th	230	236	237	0.27	0.07	0.18	1.97	1.53	1.18	0.97 (1.03)	0.71 (1.03)	0.65 (0.60)
75th	228	234	235	0.30	0.08	0.21	1.77	1.31	1.07			
70th	226	232	233	0.31	0.06	0.20	1.59	1.13	0.95			
65th	225	231	231	0.30	0.03	0.19	1.40	1.00	0.84			
60th	224	230	230	0.28	0.01	0.17	1.23	0.85	0.74			
55th	223	228	228	0.22	0.02	0.13	1.05	0.71	0.65			
50th	222	226	226	0.18	0.00	0.10	0.91	0.58	0.57			
45th	222	225	225	0.17	0.01	0.10	0.75	0.45	0.49			
40th	221	224	224	0.16	0.01	0.10	0.59	0.32	0.41			
35th	219	223	223	0.18	0.03	0.12	0.45	0.19	0.33			
30th	217	222	222	0.23	0.02	0.14	0.31	0.04	0.25	1.38 (1.19)	0.88 (1.18)	0.80 (0.67)
25th	216	221	221	0.26	0.03	0.16	0.17	-0.07	0.17			
20th	214	219	220	0.24	0.06	0.17	0.00	-0.20	0.07			
15th	211	216	217	0.25	0.06	0.17	-0.15	-0.40	-0.01			
10th	209	213	214	0.21	0.09	0.16	-0.36	-0.64	-0.11			
5th	204	208	209	0.20	0.10	0.16	-0.66	-0.94	-0.26			
M	222	226	227	0.24	0.05	0.16	0.99	0.65	0.63			
SD	9	9	9	0.05	0.03	0.03	1.07	1.02	0.60			

Note. N (Fall, Winter, Spring) = 3592, 2775, 3349;  - Reported values are within the validation phase.

aMath: 7<sup>th</sup> Grade 

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	242	243	243	0.27	0.08	0.19	2.88	2.48	1.70	0.44 (0.88)	0.12 (0.65)	0.37 (0.43)
90th	240	241	242	0.32	0.11	0.23	2.50	2.03	1.49			
85th	238	239	240	0.33	0.14	0.25	2.20	1.79	1.32			
80th	236	238	238	0.35	0.09	0.24	1.97	1.53	1.18	0.97 (1.03)	0.71 (1.03)	0.65 (0.60)
75th	235	236	237	0.39	0.10	0.27	1.77	1.31	1.07			
70th	233	234	235	0.40	0.08	0.26	1.59	1.13	0.95			
65th	231	233	233	0.38	0.04	0.24	1.40	1.00	0.84			
60th	230	231	231	0.36	0.02	0.21	1.23	0.85	0.74			
55th	228	229	229	0.28	0.02	0.17	1.05	0.71	0.65			
50th	226	227	227	0.23	0.01	0.13	0.91	0.58	0.57			
45th	225	226	226	0.22	0.01	0.13	0.75	0.45	0.49			
40th	224	225	225	0.21	0.02	0.13	0.59	0.32	0.41			
35th	223	224	224	0.23	0.04	0.15	0.45	0.19	0.33			
30th	222	224	224	0.30	0.03	0.18	0.31	0.04	0.25	1.38 (1.19)	0.88 (1.18)	0.80 (0.67)
25th	221	223	223	0.33	0.04	0.21	0.17	-0.07	0.17			
20th	219	221	221	0.31	0.08	0.21	0.00	-0.20	0.07			
15th	217	218	218	0.32	0.07	0.22	-0.15	-0.40	-0.01			
10th	214	215	215	0.27	0.12	0.21	-0.36	-0.64	-0.11			
5th	208	210	211	0.26	0.31	0.28	-0.66	-0.94	-0.26			
M	227	228	229	0.30	0.07	0.20	0.99	0.65	0.63			
SD	9	9	9	0.06	0.07	0.05	1.07	1.02	0.60			


**Note.** Monthly Growth and Monthly Growth by Percentile Group based on estimates from earlier grades.

 - Reported values are within the validation phase.

aMath: 8<sup>th</sup> Grade 

%ile	Scaled Scores			Seasonal Score Differences			Monthly Growth			Monthly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	243	244	244	0.08	0.02	0.06	2.88	2.48	1.70	0.44 (0.88)	0.12 (0.65)	0.37 (0.43)
90th	242	242	242	0.10	0.03	0.07	2.50	2.03	1.49			
85th	240	240	240	0.10	0.04	0.07	2.20	1.79	1.32			
80th	238	238	239	0.10	0.03	0.07	1.97	1.53	1.18	0.97 (1.03)	0.71 (1.03)	0.65 (0.60)
75th	237	237	237	0.12	0.03	0.08	1.77	1.31	1.07			
70th	235	235	235	0.12	0.02	0.08	1.59	1.13	0.95			
65th	233	234	234	0.12	0.01	0.07	1.40	1.00	0.84			
60th	231	232	232	0.11	0.01	0.06	1.23	0.85	0.74			
55th	229	229	229	0.08	0.01	0.05	1.05	0.71	0.65			
50th	227	227	227	0.07	0.00	0.04	0.91	0.58	0.57			
45th	226	226	226	0.07	0.00	0.04	0.75	0.45	0.49			
40th	225	225	225	0.06	0.01	0.04	0.59	0.32	0.41			
35th	224	225	225	0.07	0.01	0.04	0.45	0.19	0.33	1.38 (1.19)	0.88 (1.18)	0.80 (0.67)
30th	224	224	224	0.09	0.01	0.05	0.31	0.04	0.25			
25th	223	223	223	0.10	0.01	0.06	0.17	-0.07	0.17			
20th	221	221	221	0.09	0.02	0.06	0.00	-0.20	0.07			
15th	218	219	219	0.10	0.02	0.06	-0.15	-0.40	-0.01			
10th	215	215	216	0.08	0.04	0.06	-0.36	-0.64	-0.11			
5th	210	211	211	0.08	0.09	0.08	-0.66	-0.94	-0.26			
M	228	229	229	0.09	0.02	0.06	0.99	0.65	0.63			
SD	9	9	9	0.02	0.02	0.01	1.07	1.02	0.60			

**Note.** Monthly Growth and Monthly Growth by Percentile Group based on estimates from earlier grades.

 - Reported values are within the validation phase.

**CBMmath Norms**

**CBMmath Automaticity: 1<sup>st</sup> Grade**

%ile	Scores (Rate per 10 min)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall- Winter	Winter- Spring	Fall- Spring	Fall- Winter	Winter- Spring	Fall- Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	40	70	90	1.3	1.3	1.3	3.84	0.22	0.22	1.31 (1.54)	0.35 (1.1)	1.03 (0.68)
90th	30	60	80	1.3	1.3	1.3	3.31	0.20	0.20			
85th	30	50	70	1.3	1.3	1.3	2.91	0.17	0.18			
80th	30	50	70	1.0	1.3	1.1	2.57	0.15	0.16	1.61 (1.26)	0.63 (0.91)	1.1 (0.56)
75th	20	50	60	1.3	0.9	1.1	2.40	0.14	0.15			
70th	20	40	60	1.0	1.3	1.1	2.23	0.13	0.13			
65th	20	40	50	1.0	0.9	0.9	1.85	0.11	0.13			
60th	20	30	50	0.7	0.9	0.8	1.79	0.10	0.11			
55th	10	30	50	1.0	0.9	0.9	1.67	0.08	0.11			
50th	10	30	50	1.0	0.9	0.9	1.28	0.07	0.11			
45th	10	30	40	0.7	0.9	0.8	1.21	0.06	0.09			
40th	10	30	40	1.0	0.9	0.9	1.15	0.04	0.09			
35th	10	20	30	0.7	0.9	0.8	0.80	0.04	0.09			
30th	10	20	30	0.7	0.9	0.8	0.62	0.00	0.07			
25th	10	20	30	0.7	0.4	0.6	0.59	0.00	0.07	1.63 (1.1)	1.07 (0.75)	10.97 (0.56)
20th	0	10	30	0.7	0.9	0.8	0.40	0.00	0.05			
15th	0	10	20	0.7	0.4	0.6	0.00	-0.04	0.04			
10th	0	10	20	0.6	0.5	0.6	0.00	-0.05	0.04			
5th	0	10	10	0.3	0.4	0.4	-0.45	-0.08	0.02			
M	15	33	46	0.9	0.9	0.9	0.15	0.70	0.11			
SD	12	19	22	0.3	0.3	0.3	0.13	0.91	0.06			

**Note.** N (Fall, Winter, Spring) = 725, 838, 904;  - Reported values are within the validation phase.




CBMmath Automaticity: 2<sup>nd</sup> Grade

%ile	Scores (Rate per 10 min)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall- Winter	Winter- Spring	Fall- Spring	Fall- Winter	Winter- Spring	Fall- Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	40	60	70	1.0	0.9	0.9	3.01	0.19	0.16	0.61 (1.4)	0.05 (0.96)	0.56 (0.58)
90th	30	50	60	0.8	0.7	0.8	2.49	0.17	0.14			
85th	30	50	60	1.0	0.9	0.9	2.15	0.14	0.13			
80th	30	40	50	0.7	0.9	0.8	1.90	0.12	0.11	0.93 (1.03)	0.44 (0.82)	0.65 (0.51)
75th	30	30	50	0.3	0.9	0.6	1.81	0.10	0.10			
70th	20	30	50	0.7	0.9	0.8	1.42	0.09	0.09			
65th	20	30	40	0.3	0.9	0.6	1.25	0.08	0.09			
60th	20	30	40	0.3	0.9	0.6	1.20	0.07	0.07			
55th	10	30	30	0.7	0.4	0.6	0.88	0.06	0.07			
50th	10	20	30	0.3	0.9	0.6	0.66	0.04	0.07			
45th	10	20	30	0.3	0.4	0.4	0.61	0.04	0.06			
40th	10	20	30	0.3	0.4	0.4	0.54	0.03	0.04			
35th	10	10	30	0.3	0.9	0.6	0.40	0.00	0.04			
30th	10	10	20	0.3	0.4	0.4	0.00	0.00	0.02	1.26 (0.96)	0.89 (0.7)	0.7 (0.49)
25th	10	10	20	0.3	0.4	0.4	0.00	0.00	0.02			
20th	10	10	10	0.3	0.0	0.2	0.00	-0.03	0.02			
15th	0	10	10	0.3	0.4	0.4	-0.35	-0.04	0.00			
10th	0	10	10	0.3	0.0	0.2	-0.59	-0.07	0.00			
5th	0	10	10	0.3	0.0	0.2	-0.73	-0.08	-0.02			
M	16	26	34	0.5	0.6	0.5	0.09	0.05	0.06			
SD	13	16	20	0.2	0.3	0.2	0.11	0.08	0.05			

Note. N (Fall, Winter, Spring) = 980, 1324, 1288;  - Reported values are within the validation phase.

**CBMmath Automaticity: 3<sup>rd</sup> Grade**

%ile	Scores (Rate per 10 min)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall- Winter	Winter- Spring	Fall- Spring	Fall- Winter	Winter- Spring	Fall- Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	90	-	-	-	-	-	-	-	-	-	-	-
90th	90	-	-	-	-	-	-	-				
85th	80	-	-	-	-	-	-	-				
80th	70	-	-	-	-	-	-	-	-	-	-	-
75th	70	-	-	-	-	-	-	-				
70th	60	-	-	-	-	-	-	-				
65th	60	-	-	-	-	-	-	-				
60th	50	-	-	-	-	-	-	-				
55th	50	-	-	-	-	-	-	-				
50th	40	-	-	-	-	-	-	-				
45th	40	-	-	-	-	-	-	-				
40th	40	-	-	-	-	-	-	-				
35th	30	-	-	-	-	-	-	-				
30th	30	-	-	-	-	-	-	-	-	-	-	
25th	30	-	-	-	-	-	-	-				
20th	20	-	-	-	-	-	-	-				
15th	20	-	-	-	-	-	-	-				
10th	20	-	-	-	-	-	-	-				
5th	10	-	-	-	-	-	-	-				
M	47	-	-	-	-	-	-	-				
SD	26	-	-	-	-	-	-	-				

**Note.** N (Spring) = 53;  - Reported values are within the validation phase.

CBMmath Process: 2<sup>nd</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	25	35	36	0.48	0.07	0.30						
90th	23	33	36	0.51	0.20	0.38						
85th	21	32	36	0.54	0.26	0.42						
80th	20	31	35	0.56	0.26	0.43						
75th	18	30	35	0.57	0.33	0.47						
70th	17	29	34	0.57	0.33	0.47						
65th	16	28	34	0.57	0.40	0.50						
60th	16	27	33	0.57	0.40	0.49						
55th	15	26	33	0.56	0.46	0.52						
50th	14	25	32	0.56	0.46	0.52		Pending				
45th	13	24	31	0.55	0.46	0.51						
40th	12	23	31	0.55	0.53	0.54						
35th	11	22	29	0.54	0.46	0.51						
30th	10	20	28	0.49	0.53	0.51						
25th	9	19	27	0.49	0.53	0.51						
20th	8	18	24	0.50	0.40	0.46						
15th	7	16	22	0.47	0.40	0.44						
10th	5	14	20	0.46	0.40	0.43						
5th	2	10	17	0.38	0.46	0.42						
M	14	24	30	0.52	0.39	0.46						
SD	7	7	6	0.05	0.12	0.06						

Note. N (Fall, Winter, Spring) = 427, 812, 582;  - Reported values are within the validation phase.

CBMmath Process: 3<sup>rd</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	35	36	36	0.03	0.00	0.71						
90th	33	36	36	0.03	0.00	0.65						
85th	32	36	36	0.04	0.00	0.60						
80th	31	36	36	0.04	0.00	0.57						
75th	30	35	36	0.04	0.00	0.51						
70th	29	35	36	0.04	0.00	0.48						
65th	28	34	35	0.04	0.00	0.45						
60th	27	34	35	0.05	0.00	0.45						
55th	26	33	35	0.05	0.01	0.43						
50th	26	33	34	0.05	0.00	0.40		Pending				
45th	25	32	34	0.05	0.01	0.37						
40th	24	32	33	0.05	0.00	0.34						
35th	23	31	33	0.05	0.01	0.31						
30th	22	30	32	0.05	0.01	0.28						
25th	21	29	32	0.05	0.01	0.26						
20th	20	27	31	0.05	0.02	0.23						
15th	19	25	29	0.05	0.02	0.20						
10th	18	23	28	0.04	0.02	0.14						
5th	16	21	26	0.05	0.02	0.06						
M	26	31	33	0.04	0.01	0.74						
SD	6	5	3	0.01	0.01	0.17						

Note. N (Fall, Winter, Spring) = 377, 793, 433;  - Reported values are within the validation phase.

CBMmath Process: 4<sup>th</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	112	134	134	0.03	0.00	0.71						
90th	101	132	133	0.03	0.00	0.65						
85th	94	130	131	0.04	0.00	0.60						
80th	88	125	129	0.04	0.00	0.57						
75th	83	117	127	0.04	0.00	0.51						
70th	78	107	123	0.04	0.00	0.48						
65th	74	98	113	0.04	0.00	0.45						
60th	70	89	103	0.05	0.00	0.45						
55th	66	79	93	0.05	0.01	0.43						
50th	63	71	85	0.05	0.00	0.40		<i>Pending</i>				
45th	59	65	75	0.05	0.01	0.37						
40th	55	60	64	0.05	0.00	0.34						
35th	51	54	57	0.05	0.01	0.31						
30th	47	48	50	0.05	0.01	0.28						
25th	42	43	45	0.05	0.01	0.26						
20th	37	36	40	0.05	0.02	0.23						
15th	32	31	36	0.05	0.02	0.20						
10th	24	25	30	0.04	0.02	0.14						
5th	13	21	25	0.05	0.02	0.06						
M	63	77	84	0.04	0.01	0.74						
SD	29	39	40	0.01	0.01	0.17						

Note. N (Fall, Winter, Spring) = 606, 1180, 505;  - Reported values are within the validation phase.

CBMmath Process: 5<sup>th</sup> Grade

%ile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	125											
90th	110											
85th	102											
80th	93											
75th	85											
70th	78											
65th	75											
60th	70											
55th	67											
50th	60			<i>Pending</i>								
45th	58											
40th	55											
35th	51											
30th	47											
25th	44											
20th	40											
15th	31											
10th	27											
5th	22											
M	65.61											
SD	30.09											

**Note.** N (Fall, Winter, Spring) = 437, 175, 279;  - Reported values are within the validation phase.

**SAEBRS (FAST Behavior) Norms**

**SAEBRS Social Behavior: All Grades**

%ile	Sum of Item Scores			
	Social	Academic	Emotional	Total
95th	21	20	23	62
90th	19	19	22	58
85th	19	18	21	56
80th	18	17	20	54
75th	17	16	20	52
70th	17	15	19	51
65th	16	15	19	49
60th	16	14	19	48
55th	15	13	18	47
50th	15	13	18	45
45th	14	12	17	44
40th	14	12	17	43
35th	13	11	16	42
30th	13	10	16	40
25th	12	10	15	39
20th	12	9	15	37
15th	11	8	14	35
10th	10	7	13	32
5th	9	5	12	29
M	15	13	18	45
SD	3	4	3	10

**Note.** N (K to 8<sup>th</sup> Grades) = 1549

**Developmental Milestones (DevMilestones) Norms**

**DevMilestones – Approach Learning: Kindergarten**



%ile	Sum of Item Scores			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	15	19	NA	0.20								
90th	14	18	NA	0.20								
85th	12	17	NA	0.25								
80th	12	17	NA	0.25								
75th	11	17	NA	0.30								
70th	11	17	NA	0.30								
65th	11	16	NA	0.25								
60th	10	15	NA	0.25								
55th	10	15	NA	0.25					Pending			
50th	10	15	NA	0.25								
45th	10	15	NA	0.25								
40th	9	15	NA	0.30								
35th	9	14	NA	0.25								
30th	8	14	NA	0.30								
25th	8	13	NA	0.25								
20th	7	13	NA	0.30								
15th	6	11	NA	0.25								
10th	6	11	NA	0.22								
5th	5	10	NA	0.25								
M	9.65	14.77	NA	0.25								
SD	2.83	2.73	NA	0.03								

**Note.** N (Fall, Winter) = 222, 204; - Reported values are within the validation phase.



DevMilestones – Cognitive: Kindergarten 

%ile	Sum of Item Scores			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	23	30	NA	0.35								
90th	22	29	NA	0.35								
85th	21	28	NA	0.35								
80th	19	28	NA	0.45								
75th	18	27	NA	0.45								
70th	17	27	NA	0.50								
65th	16	27	NA	0.55								
60th	15	26	NA	0.55								
55th	14	25	NA	0.55				Pending				
50th	14	24	NA	0.50								
45th	13	24	NA	0.55								
40th	13	24	NA	0.55								
35th	12	23	NA	0.53								
30th	12	22	NA	0.50								
25th	11	21	NA	0.50								
20th	10	20	NA	0.50								
15th	8	18	NA	0.48								
10th	6	15	NA	0.45								
5th	5	12	NA	0.36								
M	14.13	23.54	NA	0.47								
SD	5.37	5.08	NA	0.07								

Note. N (Fall, Winter) = 223, 203;  - Reported values are within the validation phase.

DevMilestones – Creativity Arts: Kindergarten 

%ile	Sum of Item Scores			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	9	12	NA	0.15								
90th	9	12	NA	0.15								
85th	8	12	NA	0.20								
80th	8	11	NA	0.15								
75th	8	11	NA	0.15								
70th	7	11	NA	0.20								
65th	7	11	NA	0.20								
60th	6	10	NA	0.20								
55th	6	10	NA	0.20					Pending			
50th	6	10	NA	0.20								
45th	6	10	NA	0.20								
40th	6	9	NA	0.15								
35th	5	9	NA	0.20								
30th	5	9	NA	0.20								
25th	4	9	NA	0.25								
20th	4	9	NA	0.25								
15th	4	8	NA	0.20								
10th	3	8	NA	0.25								
5th	3	7	NA	0.20								
M	5.97	9.84	NA	0.19								
SD	1.92	1.54	NA	0.03								

**Note.** N (Fall, Winter) = 221, 204;  - Reported values are within the validation phase.

DevMilestones – Language, Literacy, and Communication: Kindergarten 

%ile	Sum of Item Scores			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	20	24	NA	0.20								
90th	19	23	NA	0.23								
85th	18	23	NA	0.25								
80th	17	22	NA	0.25								
75th	17	21	NA	0.20								
70th	16	21	NA	0.24								
65th	15	20	NA	0.25								
60th	15	19	NA	0.20								
55th	14	19	NA	0.25				Pending				
50th	14	19	NA	0.25								
45th	13	18	NA	0.26								
40th	13	18	NA	0.25								
35th	12	17	NA	0.27								
30th	11	17	NA	0.30								
25th	10	16	NA	0.30								
20th	9	15	NA	0.32								
15th	8	14	NA	0.28								
10th	7	12	NA	0.25								
5th	5	9	NA	0.22								
M	13.21	18.29	NA	0.25								
SD	4.43	4.11	NA	0.03								

**Note.** N (Fall, Winter) = 222, 206;  - Reported values are within the validation phase.

DevMilestones – Physical Motor: Kindergarten 

%ile	Sum of Item Scores			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	9	11	NA	0.10								
90th	9	11	NA	0.10								
85th	9	11	NA	0.10								
80th	8	11	NA	0.15								
75th	8	10	NA	0.10								
70th	8	10	NA	0.10								
65th	7	10	NA	0.15								
60th	7	9	NA	0.10								
55th	7	9	NA	0.10					Pending			
50th	7	9	NA	0.10								
45th	7	9	NA	0.10								
40th	6	9	NA	0.15								
35th	6	9	NA	0.15								
30th	6	9	NA	0.15								
25th	5	9	NA	0.20								
20th	5	8	NA	0.15								
15th	4	8	NA	0.20								
10th	4	7	NA	0.15								
5th	3	6	NA	0.15								
M	6.54	9.12	NA	0.13								
SD	1.93	1.58	NA	0.03								

**Note.** N (Fall, Winter) = 222, 204;  - Reported values are within the validation phase.

DevMilestones – Social Emotional: Kindergarten 

%ile	Sum of Item Scores			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall-Winter	Winter-Spring	Fall-Spring	Fall-Winter	Winter-Spring	Fall-Spring	F-W M (SD)	W-S M (SD)	F-S M (SD)
95th	25	32	NA	0.33								
90th	24	31	NA	0.35								
85th	23	30	NA	0.36								
80th	22	30	NA	0.40								
75th	21	30	NA	0.45								
70th	20	29	NA	0.45								
65th	19	28	NA	0.45								
60th	19	27	NA	0.40								
55th	18	26	NA	0.40				Pending				
50th	17	26	NA	0.45								
45th	17	25	NA	0.40								
40th	16	24	NA	0.42								
35th	15	24	NA	0.45								
30th	14	24	NA	0.49								
25th	14	23	NA	0.45								
20th	13	22	NA	0.45								
15th	11	20	NA	0.45								
10th	10	17	NA	0.35								
5th	8	13	NA	0.25								
M	17.00	25.28	NA	0.41								
SD	5.06	5.10	NA	0.06								

**Note.** N (Fall, Winter) = 221, 205;  - Reported values are within the validation phase.