

2018-19 TNReady Mathematics Grades 3–5 Assessment Fact Sheet

Revised September 19, 2018

Mathematics Assessment Overview

This fact sheet provides information about the TNReady mathematics grades 3-5 assessments. The mathematics assessments will assess the Tennessee Academic Standards through measurement of student mastery and will require students to demonstrate a deep conceptual understanding of mathematics, number sense, fluency, problem solving, and understanding of the grade-level horizontal coherence embedded within the standards. The math assessments are administered in three subparts, the first of which is **without** a calculator.

For information on the other TNReady assessments in grades 3–5, click [here](#).

Test Administration Schedule

For a full schedule of all statewide assessments, see the Statewide Assessment Schedule on the department website ([here](#)).

Test Administration Times

The time for administration of the math assessment in grades 3-5 is outlined in Table 1.

Table 1. Subpart Timing

The following timing details are applicable to all mathematics grades 3-5 assessments.

Subpart 1 (No Calculator)	Subpart 2 (Calculator)	Subpart 3 (Calculator)	Summary
<ul style="list-style-type: none"> • 45 Minutes • 21-31 Items 	<ul style="list-style-type: none"> • 30 Minutes • 10-17 Items 	<ul style="list-style-type: none"> • 40 Minutes • 12-17 Items 	<ul style="list-style-type: none"> • Total Time: 115 Minutes • Total Items: 45-65

Performance Levels and Scale Scores

Student performance on Tennessee’s statewide assessments is categorized into four performance levels.

Table 2 provides information regarding student achievement at each performance level for the TNReady Math tests. This information is provided on student reports so that students, parents, and educators may interpret student results in a meaningful way.

Table 2. Performance Levels

Level 1 (Below)	Level 2 (Approaching)	Level 3 (On-track)	Level 4 (Mastered)
Performance at this level demonstrates that the student has a minimal understanding and has a nominal ability to apply the grade/course-level knowledge and skills defined by the Tennessee Academic Standards.	Performance at this level demonstrates that the student is approaching understanding and has a partial ability to apply the grade/course-level knowledge and skills defined by the Tennessee Academic Standards.	Performance at this level demonstrates that the student has a comprehensive understanding and has a thorough ability to apply the grade/course-level knowledge and skills defined by the Tennessee Academic Standards.	Performance at this level demonstrates that the student has an extensive understanding and has an expert ability to apply the grade/course-level knowledge and skills defined by the Tennessee Academic Standards.

Performance level scale score ranges for TNReady math assessments for grades 3-5 are provided in Table 3 below.

Table 3. Performance Levels for the TNReady Math Grades 3–5 Assessment Scale Scores

Assessment	Level 1	Level 2	Level 3	Level 4
Grade 3	200–304	305–340	341–370	371–450
Grade 4	200–294	295–329	330–372	373–450
Grade 5	200–299	300–338	339–373	374–450

Score Point Distribution by Sub-Score Category

For grades 3-5 mathematics, approximately 70 percent of the assessment items gauge student mastery on major work of the grade. Approximately 30 percent of the items gauge student mastery on supporting work standards. Provided in Tables 4-6 are score point distribution percentage ranges of total score points by sub-score category for each assessment. Ranges reflect percentage of operational assessment items.

Table 4. Score Point Distribution by Sub-Score Category for Grade 3

Assessment	Computation with Whole Numbers	Fractions	Number Relationships and Patterns	Geometric and Measurement Concepts
Grade 3	22-26%	11-13%	16-21%	31-40%

Table 5. Score Point Distribution by Sub-Score Category for Grade 4

Assessment	Computation with Whole Numbers	Fractions	Number Relationships and Patterns	Geometric and Measurement Concepts
Grade 4	22-26%	27-32%	18-23%	16-19%

Table 6. Score Point Distribution by Sub-Score Category for Grade 5

Assessment	Computation with Whole Numbers and Decimals; Evaluating Expressions	Fractions	Number Relationships and Patterns	Geometric and Measurement Concepts
Grade 5	18-20%	24-31%	16-18%	27-34%

Test Administration Information

Within the state testing window, testing schedules are established **by the district at the school and/or district level**. It is at the district's discretion to allow schools to set their own testing schedules, independent of a district testing schedule.

The mathematics assessments for grades 3-5 may consist of the following item types:

- Multiple choice
- Multiple select
- Fill in the blank
- Graphing
- Matching table

Included in the mathematics assessment for grades 3-5 are Two-Part Items.

- **Two-part items:** These are items with two parts, A and B, worth a total of two points.

A series of consecutive items may also share a stimulus.

- As many as 6 consecutive items may share a common stimulus or context.
- These items are independent of one another as with other single items on the assessment and worth 1 point each.

Practice Tests

The practice test is a content-specific tool that allows students and test administrators the opportunity to gain exposure to a variety of test item types. The department has provided the following practice tools to support educators and students:

- **Paper practice tests:** PDF versions of practice tests for grades 3–5 are available and posted on EdTools ([here](#)).
- **Online practice tests:** The online versions of the practice test are available on the Nextera platform ([here](#)) for grade 5.

Note that there is only one practice test form for each subject area/grade level combination; this same form may be available in a computer-based and paper-based version.

Additional Information

Please visit the [department's website](#) for more information about the statewide assessment program.