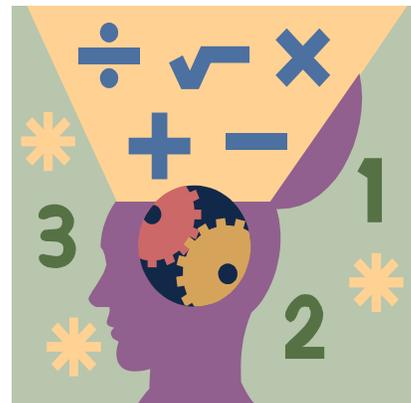# Trumbull Public Schools
Report Card Companion for Grade 5

The Fifth Grade Child:

- Knows the rules

- Works well with others

- Enjoys group games and projects

- Likes order and a harmonious environment

- Learns factual information easily

- Concentrates on completing projects and tasks

IN GRADE 5, students will build their understanding of the place value system by working with decimals up to the hundredths place. Students will also add, subtract, and multiply fractions, including fractions with unlike denominators. They will continue to expand their geometry and measurement skills, learning the concept of volume and measuring the volume of a solid figure.

BY THE END OF THE SCHOOL YEAR most 5th grade students will be able to do the following with consistency:

- Quickly and accurately multiply and divide multi-digit whole numbers

- Use exponents to express powers of 10 (in 10^2, 2 is the exponent)

- Write and interpret mathematical expressions using symbols such as parentheses (i.e.: *add 8 and 7, then multiply by 2*" can be written as 2× (8+7))

- Read, write, and compare decimals to the thousandths place

- Add, subtract, decimals to the hundredths place

- Compute products and quotients of decimals to the hundredths place efficiently and accurately

- Add and subtract fractions with unlike denominators by converting them to fractions with like denominators

- Multiply fractions by whole numbers and other fractions

- Divide whole numbers by unit fractions and unit fractions by whole numbers

- Recognize volume as an attribute of three-dimensional space and calculate volume of right rectangular prisms
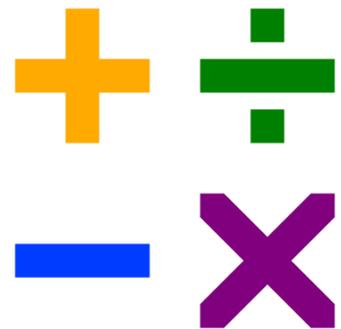
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Report Card Companion for Grade 5

Trimester 1 Expectations for Mathematics

Numerical Operations and Algebraic Thinking

- Write and interpret numerical expressions using parentheses, brackets, or braces

- Understand the place value system by recognizing that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents to its left

- Fluently operate (add, subtract, multiply, and divide) with multi-digit numbers

Quantity, Measurement, and Data

Understand concepts of volume and relate volume to multiplication and to addition

- Recognize volume as an attribute of three-dimensional shapes and understand concepts of volume measurement

- Find the volume of a right rectangular prism with whole number side lengths and apply the formula for volume: $V = l \times w \times h$

- Recognize volume as additive

Geometry

- Not assessed in Trimester 1

Basic Fact Fluency

Basic Facts are assessed six times each trimester. In Trimester 1 students are assessed on multiplication and division facts. The Trimester 1 report card shows the number of correct responses for each assessment out of 50 multiplication facts and 40 division facts. Students have 2.5 minutes to complete the assessment.

Tri-1 Assessments 1, 2, 3	Tri-1 Assessments 4, 5, 6
Multiplication Facts (50 problems)	Division Problems (40 problems)

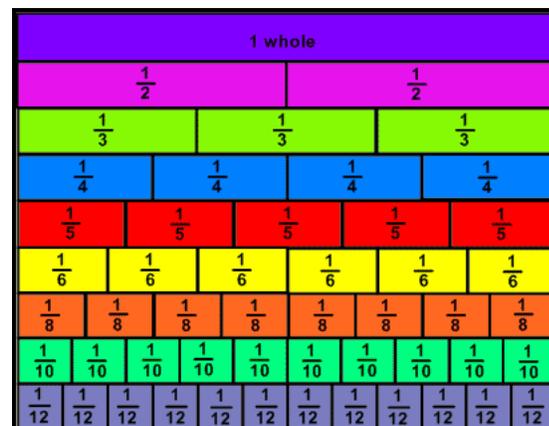The expectation is for grade 5 students to correctly solve all problems.

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Trimester 2 Expectations for Mathematics

Numerical Operations and Algebraic Thinking

- Write and interpret numerical expressions and evaluate expressions with parentheses, brackets, or braces

- Read, write and compare decimals to the thousandths and use place value to round decimals to any place

- Perform operations (+, -, ×, ÷) with multi-digit whole numbers and with decimals to the hundredths place

- Apply and extend understanding of fractions and fraction models to represent the addition and subtraction of fractions with unlike denominators including mixed numbers

- Develop fluency in calculating sums and differences of fractions, and make reasonable estimates

- Solve word problems involving fractions

- Understand the relationship between multiplication and division of fractions to explain why the procedures for multiplying and dividing fractions make sense (dividing unit fractions by whole numbers and whole numbers by unit fractions)

Quantity, Measurement, and Data
- Not assessed in Trimester 2

Geometry
- Not assessed in Trimester 2

Basic Fact Fluency

Basic Facts are assessed six times each trimester. In Trimester 2 students are assessed on multiplication and division facts. The report card shows the number of correct responses for each assessment out of 50 multiplication facts and 50 division facts. Students have 2.5 minutes to complete the assessment.

Tri-2 Assessments 1, 2, 3	Tri-2 Assessments 4, 5, 6
Multiplication Facts (50 problems)	Division Problems (50 problems)

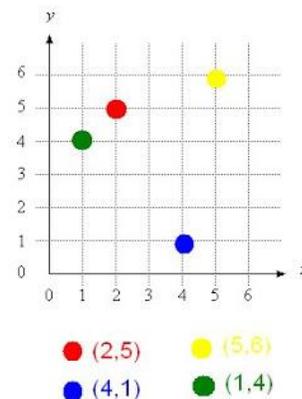The expectation is for grade 5 students to correctly solve all problems.

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<u>Trimester 3 Expectations for Mathematics</u>

Numerical Operations and Algebraic Thinking

- Analyze patterns and relationships using the first quadrant of the coordinate grid and generate numerical patterns using two given rules

- Identify apparent relationships between corresponding terms and form ordered pairs consisting of corresponding terms from the two patterns, and graph the coordinate pairs

- Solve word problems using operations (+, -, ×, ÷) with multi-digit whole numbers and with decimals to hundredths

- Find quotients of whole numbers with up to four digit dividends and two-digit divisors using strategies based on place value, the properties of operations and the relationship between multiplication and division

- Add, subtract, multiply and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations and or the relationship between addition and subtraction

- Apply and extend previous understandings of multiplication and division to multiply and divide fractions

Quantity, Measurement, and Data

- Convert like measurement units within a given measurement system (customary and metric) and use conversions in solving multi-step real world problems

Geometry

- Graph points on the coordinate plane to solve real-world and mathematical problems

Basic Fact Fluency

Basic Facts are assessed six times each trimester. In Trimester 3 students are assessed on multiplication problems with missing factors. The report card shows the number of correct responses for each assessment out of 50 total questions. Students have 2.5 minutes to complete the assessment.

Tri-3 Assessments 1-6
Missing factor in various places (40 problems)

The expectation is for grade 5 students to correctly solve all problems.