

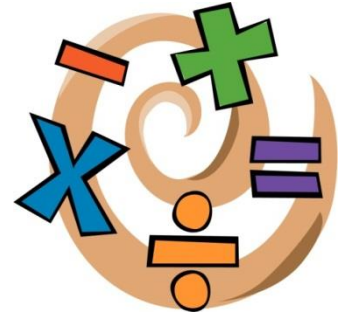


Trumbull Public Schools

Report Card Companion for Grade 4

The Fourth Grade Child:

- Likes rules and logic
- Begins to negotiate
- Learns better on his/her own as he/she gains mastery of basic skills
- Struggles with abstractions
- Has a growing sense of peer importance and solidarity
- Needs clear expectations, encouragement, and positive language



IN GRADE 4, students will use addition, subtraction, multiplication, and division to solve word problems, including problems involving measurement of volume, mass, and time. Students will continue to build their understanding of fractions—creating equal fractions, comparing the size of fractions, adding and subtracting fractions, and multiplying fractions by whole numbers. They will begin to understand the relationship between fractions and decimals.

BY THE END OF THE SCHOOL YEAR, most 4th grade students will be able to do the following with consistency:

- Add and subtract whole numbers up to 1 million quickly and accurately
- Solve multi-step word problems, including problems involving measurement and converting measurements from larger to smaller units
- Multiply and divide multi-digit numbers
- Extend understanding of fractions by comparing the size of two fractions with different numerators (top numbers) and different denominators (bottom numbers)
- Create equal fractions ($\frac{3}{4} = \frac{3 \times 2}{4 \times 2} = \frac{6}{8}$)
- Add and subtract fractions with the same denominator
- Build fractions from smaller fractions ($\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$)
- Connect addition & subtraction of whole numbers to multiplying fractions by whole numbers
- Represent and interpret data
- Convert fractions with denominators of 10 or 100 into decimals
- Locate decimals on a number line
- Compare decimals and fractions using the symbols $>$ (more than), $=$ (equal to), and $<$ (less than)



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Trimester 1 Expectations for Mathematics

Numerical Operations and Algebraic Thinking

- Generalize place value understanding for multi-digit whole numbers. Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, $<$ symbols to record the results of comparisons. Students will use place value understanding to round multi-digit numbers to any place and recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.
- Fluently add and subtract multi-digit whole numbers using the standard algorithm.
- Solve multistep word problems using the four operations including problems in which remainders must be interpreted.
- Gain familiarity with factors and multiples. Find all factor pairs for whole numbers in the range of 1-100 and recognize that a whole number is a multiple of each of its factors.
- Represent verbal statements of multiplicative comparisons as multiplication equations.



Quantity, Measurement, and Data

- Not assessed in Trimester 1

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 report card shows the number of correct responses for each assessment. Students have 2.5 minutes to complete the assessment.

Grade 4 students are expected to solve all problems correctly. See table below for the total number of questions per assessment.

Tri-1 Assessments 1, 2, 3 Multiplication Facts (40 problems)	Tri-1 Assessments 4, 5, 6 Division Facts (30 problems)
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Trimester 2 Expectations for Mathematics

Numerical Operations and Algebraic Thinking

- Use the four operations to solve problems.
- Fluently add and subtract multi-digit numbers using the standard algorithm.
- Multiply a whole number of up to four digits by a one-digit whole number.
- Find whole number quotients and remainders with up to four digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and or the relationship between multiplication and division.
- Extend understanding of fraction equivalence and ordering. Build fraction from unit fractions by applying and extending previous understandings of operations on whole numbers. Understand decimal notation for fractions, and compare decimal fractions.

Quantity, Measurement, and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Geometric measurement: understand concepts of angle and measure angles.

Geometry

- Describe, analyze, compare and classify two dimensional shapes. Deepen understanding of properties of two-dimensional objects by building, drawing, and analyzing plane figures.

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. Students have 2.5 minutes to complete the assessment.

Grade 4 students are expected to solve all problems correctly. See table below for the total number of questions per assessment.



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Tri-2 Assessments 1, 2, 3	Tri-2 Assessments 4, 5, 6
Multiplication Facts (50 problems)	Division Facts (30 problems)



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Trimester 3 Expectations for Mathematics

Numerical Operations and Algebraic Thinking

- Use the four operations (+, -, ×, ÷) with whole numbers to solve problems. Students will solve multistep word problems including problems in which the remainder must be interpreted.
- Generate and analyze patterns. Generate a number pattern that follows a specific rule.
- Multiply a whole number of up to four digits by a one digit number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Explain calculations by using equations, rectangular arrays, and/or area models.
- Find whole-number quotients and remainders with up to four digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Explain the calculation by using equations, rectangular arrays and/or area models.
- Extend understanding of fraction equivalence and ordering.

Quantity, Measurement, and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit using customary and metric measures
- Use operations to solve word problems involving distances, intervals of time, liquid volume and masses of objects



Geometry

- Not assessed in Tri-3

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. Students have 2.5 minutes to complete the assessment.

Grade 4 students are expected to solve all problems correctly. See table below for the total number of questions per assessment.

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