

4th Grade Math

Standard	Exceeds (4)	Secure (3)	Developing (2)	Beginning (1)
<p>Use the four operations with whole numbers to solve word problems.</p>	<p>Solves multi-step word problems and those posed with decimals using the four operations, AND represents these problems using equations with a symbol standing for the unknown quantity, AND justifies the reasonableness of answers using mental computation and estimation strategies including rounding.</p>	<p>Solves multi-step word problems with whole-numbers using the four operations, including problems in which remainders must be interpreted, AND represents these problems using equations with a symbol standing for the unknown quantity, AND assesses the reasonableness of answers using mental computation and estimation strategies including rounding.</p>	<p>Solves word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted, AND represents these problems using equations.</p>	<p>Solves word problems posed with whole numbers and having whole-number answers using any of the four operations.</p>
<p>Describe the relationship between factors and multiples of a whole number.</p>	<p>Determines all factor pairs for a whole number in the range of 1-100, AND determines whether a given whole number is a multiple of a given one-digit number, AND determines whether a given whole number is prime or composite, AND determines the prime factorization of numbers.</p>	<p>Determines all factor pairs for a whole number in the range of 1-100, AND determines whether a given whole number is a multiple of a given one-digit number, AND determines whether a given whole number is prime or composite.</p>	<p>Determines factor pairs for a whole number in the range of 1-100 AND determines whether a given whole number is a multiple of a given one-digit number.</p>	<p>Determines factor pairs OR multiples for whole numbers</p>
<p>Generate and analyze patterns.</p>	<p>Generate a number or shape pattern that follows a given rule, AND</p>	<p>Generate a number or shape pattern that follows a given rule, AND</p>	<p>Generate a number or shape pattern that follows a given rule</p>	<p>Generate a number or shape pattern</p>

	identifies apparent features of the pattern that were not explicit in the rule itself.	identifies apparent features of the pattern that were not explicit in the rule itself.		
Generalize place value understanding for multi-digit whole numbers.	Reads and writes multi-digit whole numbers and compares the values of the digits (beyond seven digits) using relational symbols, AND rounds numbers to a given place.	Reads and writes multi-digit whole numbers and compares the values of the digits (up to seven digits) using relational symbols, AND rounds numbers to a given place.	Reads and writes multi-digit whole numbers and compares the values of the digits (up to seven digits) using relational symbols, OR reads and writes multi-digit whole numbers and rounds numbers to a given place.	Reads and writes multi-digit whole numbers OR compares the values of the digits using relational symbols, OR rounds numbers to a given place.
Use place value understanding and properties of operations to perform multi-digit arithmetic.	Adds, subtracts, multiplies, and divides multi-digit numbers including decimals.	Adds, subtracts, multiplies, and divides multi-digit whole numbers.	Applies a strategy to add, subtract, multiply, and divide multi-digit whole numbers but may not obtain an accurate answer.	Applies a strategy to add, subtract, multiply, or divide multi-digit whole numbers.
Extend understanding of fraction equivalence and ordering.	Applies knowledge of equivalent fractions to solve problems.	Generates equivalent fractions for a given fraction, AND records the comparison of two fractions with different numerators and denominators.	Identifies equivalent fractions for a given fraction, OR records the comparison of two fractions with different numerators and denominators.	Compares fractions with like numerators or denominators.
Calculate fractions by using the four operations.	Adds and subtracts fractions with unlike denominators.	Adds and subtracts fractions and mixed numbers with like denominators, AND multiplies whole numbers by a fraction.	Adds and subtracts fractions and mixed numbers with like denominators, OR multiplies whole numbers by a fraction.	Adds and subtracts fractions with like denominators.

Understand decimal notation for fractions, and compare decimal fractions.	Converts and compares fractions and decimals, represents them in simplest form.	Converts AND compares fractions and decimals (tenths and hundredths).	Converts OR compares fractions and decimals (tenths and hundredths).	Converts OR compares fractions OR decimals (tenths and hundredths).
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	Uses all four operations to solve word problems involving units of measurement (time, area and perimeter, etc.) and is able to convert measurement units. Represents the word problem using an equation.	Uses four operations to solve word problems involving units of measurement (time, area and perimeter, etc.) and converts measurement units.	Applies a strategy to solve word problems involving units of measurement (time, area and perimeter, etc.), AND converts measurement units, BUT may not obtain an accurate answer.	Applies a strategy to solve word problems involving units of measurement OR converts measurement units.
Represent and interpret data in a line plot.	Creates and solves problems involving information from the line plot.	Creates and interprets a line plot to display a data set of measurements in fractions of a unit, AND solves addition and subtraction problems involving information from the line plot.	Creates and interprets a line plot to display a data set of measurements in fractions of a unit, OR solves addition and subtraction problems involving information from the line plot.	Creates or interprets a line plot to display a data set of measurements in whole number units.
Understand concepts of angles and measure angles.	Uses knowledge of angles to determine the measurement of an unknown angle.	Draws AND measures angles using a protractor.	Draws OR measures angles using a protractor.	Finds the approximate measurement of an angle using a protractor.
Draw and identify lines and angles, and classify shapes by properties of their lines and angles.	Classifies shapes by multiple properties and justifies their classification.	Draws and identifies lines and angles, AND classifies shapes by properties of their lines and angles.	Draws and identifies lines and angles, OR classifies shapes by properties of their lines and angles.	Identifies lines and angles.