

Concept	TEKS Standard	Common Core Standard
<b>Grade 6</b>		
<b>Ordering Rational Numbers</b>	6.02 D order a set of rational numbers arising from mathematical and real-world contexts	5.NBT.A.3 Read, write, and compare decimals to thousandths.
<b>Four Operations</b>	6.03 D add, subtract, multiply, and divide integers fluently	6.NS.B.2 Fluently divide multi-digit numbers using the standard algorithm.  6.NS.C.5 understand that positive and negative numbers are used together to describe quantities having opposite directions or values; use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.
<b>Multiply Rational Numbers</b>	6.03 E multiply and divide positive rational numbers fluently	6.NS.B.2 Fluently divide multi-digit numbers using the standard algorithm.
<b>Divide Rational Numbers</b>	6.03 E multiply and divide positive rational numbers fluently	6.NS.B.2 Fluently divide multi-digit numbers using the standard algorithm.
<b>Ratios and Rates</b>	6.04 B apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates	6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.  6.RP.A.2 Understand the concept of a unit rate $a/b$ associated with a ratio $a:b$ with $b \neq 0$ , and use rate language in the context of a ratio relationship.
<b>Equivalent Forms</b>	6.04 G generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money	5.NF.A.1 Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.  5.NF.A.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.
<b>Measurement Conversions</b>	6.04 H convert units within a measurement system, including the use of proportions and unit rates.	6.RP.A.3.D Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.
<b>Percentages</b>	6.05 B solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole, including the use of concrete and pictorial models	6.RP.A.3.C Find a percent of a quantity as a rate per 100; solve problems involving finding the whole, given a part and the percent.
<b>Equations from Data</b>	6.06 C represent a given situation using verbal descriptions, tables, graphs, and equations in the form $y = kx$ or $y = x + b$	6.EE.B.7 Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which $p$ , $q$ and $x$ are all nonnegative rational numbers.
<b>Order of Operations</b>	6.07 A generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization	6.EE.A.1 Write and evaluate numerical expressions involving whole-number exponents.

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<b>Grade 6 cont.</b>		
<b>Properties</b>	6.07 D generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties	6.EE.A.3 Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$ ; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$ ; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$ .  6.EE.B.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.
<b>Area &amp; Volume</b>	6.08 D determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers	6.G.A.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.  6.G.A.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = lwh$ and $V = bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.
<b>Equations and Inequalities</b>	6.10 A model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts	6.EE.A.2.C Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).
<b>Graph Points</b>	6.11 A The student applies mathematical process standards to use coordinate geometry to identify locations on a plane. The student is expected to graph points in all four quadrants using ordered pairs of rational numbers.	6.NS.C.6.C Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.
<b>Mean, Median, Range, and IQR</b>	6.12 C summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution	6.SP.A.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.
<b>Mode and Frequency</b>	6.12 D summarize categorical data with numerical and graphical summaries, including the mode, the percent of values in each category (relative frequency table), and the percent bar graph, and use these summaries to describe the data distribution	6.SP.B.5 Summarize numerical data sets in relation to their context
<b>Interpret Data</b>	6.13 A interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots	6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.