

**SIXTH GRADE
Mathematics
PRIORITY STANDARDS**

Proportional Reasoning: Ratios

6.RP.A.2	Understand the concept of a unit rate in authentic contexts and use rate language in the context of a ratio relationship.
6.RP.A.3	Use ratio and rate reasoning to solve problems in authentic contexts that use equivalent ratios, unit rates, percents, and/or measurement units.

Numeric Reasoning: Number Systems

6.NS.B.3	Fluently add, subtract, multiply, and divide positive rational numbers using accurate, efficient, and flexible strategies and algorithms.
6.NS.B.4	Determine greatest common factors and least common multiples using a variety of strategies. Apply the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.
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 authentic contexts, explaining the meaning of zero in each situation.
6.NS.C.7	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. Write, interpret, and explain statements of order for rational numbers and absolute value in authentic applications.
6.NS.C.8	Graph points in all four quadrants of the coordinate plane to solve problems in authentic contexts. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.

Algebraic Reasoning: Expressions and Equations

6.AEE.A.3	Apply the properties of operations to generate equivalent expressions and to determine when two expressions are equivalent.
6.AEE.B.6	Write and solve equations of the form $x + p = q$ and $px = q$ in problems that arise from authentic contexts for cases in which p , q and x are all nonnegative rational numbers.
6.AEE.B.7	Write inequalities of the form $x > c$ and $x < c$ to represent constraints or conditions to solve problems in authentic contexts. Describe and graph on a number line solutions of inequalities of the form $x > c$ and $x < c$.

Geometric Reasoning and Measurement

6.GM.A.1	Find the area of triangles, quadrilaterals, and other polygons by composing into rectangles or decomposing into triangles and other shapes. Apply these techniques to solve problems in authentic contexts.
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Data Reasoning

6.DR.A.1	Formulate and recognize statistical investigative questions as those that anticipate changes in descriptive data related to the question and account for it in the answers.
6.DR.B.2	Collect and record data with technology to identify and describe the characteristics of numerical data sets using quantitative measures of center and variability.

* Denotes a revision has been made to the original Common Core State Standard.