

**SEVENTH GRADE  
Mathematics  
PRIORITY STANDARDS**

<b>Proportional Reasonings: Ratio and Probability</b>	
7.RP.A.1	Solve problems in authentic contexts involving unit rates associated with ratios of fractions.
7.RP.A.3	Use proportional relationships to solve ratio and percent problems in authentic contexts.
7.RP.B.4	Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Represent probabilities as fractions, decimals, and percents.
<b>Numeric Reasoning: Number Systems</b>	
7.NS.A.1	Apply and extend previous understandings of addition, subtraction and absolute value to add and subtract rational numbers in authentic contexts. Understand subtraction as adding the additive inverse, $p - q = p + (-q)$ .
7.NS.A.2	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. Interpret operations of rational numbers solving problems in authentic contexts.
7.NS.A.3	Understand that equivalent rational numbers can be written as fractions, decimals and percents.
<b>Algebraic Reasoning: Expressions and Equations</b>	
7.AEE.A.1	Identify and write equivalent expressions with rational numbers by applying associative, commutative, and distributive properties.
7.AEE.B.3	Write and solve problems in authentic contexts using expressions and equations with positive and negative rational numbers in any form. Contexts can be limited to those that can be solved with one or two-step linear equations.
<b>Geometric Reasoning and Measurement</b>	
7.GM.A.1	Solve problems involving scale drawings of geometric figures. Reproduce a scale drawing at a different scale and compute actual lengths and areas from a scale drawing.
7.GM.B.3	Understand the relationship between area and circumference of circles. Choose and use the appropriate formula to solve problems with radius, diameter, circumference and area of circles.
7.GM.B.4	Apply facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to determine an unknown angle in a figure.
7.GM.B.5	Solve problems in authentic contexts involving two- and three-dimensional figures. Given formulas, calculate area, volume and surface area.
<b>Geometric Reasoning and Measurement</b>	
7.DR.D	Interpret data and answer investigative questions
	* Denotes a revision has been made to the original Common Core State Standard.