Standard	Description of 7 th Grade Mathematics Essential Standards
7.RP.1	Compute unit rates associated with ratios of fractions, including ratios of lengths,
	areas and other quantities measured in like or different units. For example, if a
	person walks ½ mile in each ¼ hour, compute the unit rate as the complex fraction
	1/2/1/4 miles per hour, equivalently 2 miles per hour.
7.RP.2	Recognize and represent proportional relationships between quantities
7.RP.3	Use proportional relationships to solve multistep ratio and percent problems.
	Examples: simple interest, tax, markups and markdowns, gratuities and
7 NG 41	commissions, fees, percent increase and decrease, percent error.
7.NS.1b	Understand $p + q$ as the number located a distance $ q $ from p, in the positive or
	negative direction depending on whether q is positive of negative. Snow that a number and its exposite have a sum of Q (are additive inverses). Interpret sums of
	rational numbers by describing real-world contexts
7.NS.1c	Understand subtraction of rational numbers as adding the additive inverse, $p - q =$
	p+(-q). Show that the distance between two rational numbers on the number line
	is the absolute value of their difference and apply this principle in real-world
	contexts.
7.NS.2	Apply and extend previous understandings of multiplication and division and of
	fractions to multiply and divide rational numbers.
7.EE.1	Apply properties of operations as strategies to add, subtract, factor, and expand
7 55 0	linear expressions with rational coefficients.
7.EE.2	Understand that rewriting an expression in different forms in a problem context
	can shed light on the problem and now the quantities in it are related. For example, a + 0.05a = 1.05a means that "increase by 5%" is the same as "multiply by 1.05."
7 FF3	Solve multi-step real-life and mathematical problems posed with positive and
7.225	negative rational numbers in any form (whole numbers, fractions, and decimals).
	using tools strategically. Apply properties of operations to calculate with numbers
	in any form; convert between forms as appropriate; and assess the reasonableness
	of answers using mental computation and estimation strategies. For example: If a
	woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of
	her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel
	bar 9¾ inches long in the center of a door that is 27 ½ inches wide, you will need to
	place the bar about 9 inches from each edge; this estimate can be used as a check
7 55 /	Use variables to represent quantities in a real-world or mathematical problem and
7.LL.4	construct simple equations and inequalities to solve problems by reasoning about
	the quantities.
7.G.1	Solve problems involving scale drawings of geometric figures, including computing
	actual lengths and areas from a scale drawing and reproducing a scale drawing at
	a different scale.
7.G.6	Solve real-world and mathematical problems involving area, volume and surface
	area of two- and three-dimensional objects composed of triangles, quadrilaterals,
	polygons, cubes, and right prisms