Common Core Standards Mathematical Practices	Essential Questions	Skills and Understanding	Resources	Estimated Time
7.RP.3 7.NS.1 7.NS.1a 7.NS.1b 7.NS.1c 7.NS.1d 7.NS.2 7.NS.2a 7.NS.2b 7.NS.2c 7.NS.2d 7.NS.3 MP3	EXPRESSIONS AND EQUATIONS How can mathematical ideas be represented? What strategies and properties can be used to translate equations and inequalities? Why do you change the direction of the inequalities sign when multiplying or dividing by a negative number?	• Unified understanding of number, recognizing fractions, decimals (that have a finite or repeated decimal representation), and percents as different representations of rational numbers • Extend addition, subtraction, multiplication, and division to all rational numbers, maintaining the properties of operations and the relationship between addition and subtraction, and multiplication and division • View negative numbers in terms of everyday context (i.e. amounts owed or temperatures below zero) and explain and interpret the rules for adding, subtracting,	Cool Math Illuminations Mathematical Practices Inside Mathematics Illustrative Math Book: Chapter 3- pages 102-146 Chapter 4- pages 148-190	

		multiplying, and dividing with negative numbers • Use the arithmetic of rational numbers as they formulate expressions and equations in one variable and use these to solve problems		
7.RP.1 7.RP.2 7.RP.2a 7.RP.2b 7.RP.2c 7.RP.2d 7.RP.3 7.NS.3 7.G.1 MP1 MP3	RATES AND PROPORTIONAL RELATIONSHIPS What is the difference between ratio and rate? How can the concept of proportions be applied to solve problems? How can percent help you understand situations involving money?	• Ratios and proportionality are used to solve single-digit and multi-step problems • Ratios and proportionality are used to solve percent problems including those involving discounts, interest, taxes, tips, and percent increase or decrease • Solve problems about scale drawing relating corresponding lengths between the objects or use the fact that relationships of lengths within an object are preserved in similar objects	Book: Chapter 7- pages 284-330	

		• Graph proportional relationships and understand the unit rate informally as a measure of the steepness of the related line, the slope • Distinguish proportional relationships from other relationships		

Time Permitting: Look at Chapter 8: Applying Percents