

Arithmetic/Pre-Algebra Review Refresher Course Content

A  symbol indicates that an animation is available for one or more exercises in this section.
 A  symbol indicates that a video is available for one or more exercises in this section.

		Learning Aids
☒ 	1. Whole Numbers	 
☒ 	Section 1.1: Reading and Writing Whole Numbers	
☒ 	Section 1.2: Adding Whole Numbers	
☒ 	Section 1.3: Subtracting Whole Numbers	
☒ 	Section 1.4: Multiplying Whole Numbers	
☒ 	Section 1.5: Dividing Whole Numbers	
☒ 	Section 1.6: Long Division	 
☒ 	Section 1.7: Rounding Whole Numbers	 
☒ 	Section 1.8: Exponents, Roots, and Order of Operations	
☒ 	Section 1.9: Reading Pictographs, Bar Graphs, and Line Graphs	
☒ 	Section 1.10: Solving Application Problems	 
☒ 	2. Multiplying and Dividing Fractions	 
☒ 	Section 2.1: Basics of Fractions	
☒ 	Section 2.2: Mixed Numbers	
☒ 	Section 2.3: Factors	
☒ 	Section 2.4: Writing a Fraction in Lowest Terms	
☒ 	Section 2.5: Multiplying Fractions	
☒ 	Section 2.6: Applications of Multiplication	
☒ 	Section 2.7: Dividing Fractions	
☒ 	Section 2.8: Multiplying and Dividing Mixed Numbers	 
☒ 	3. Adding and Subtracting Fractions	 
☒ 	Section 3.1: Adding and Subtracting Like Fractions	
☒ 	Section 3.2: Least Common Multiples	 
☒ 	Section 3.3: Adding and Subtracting Unlike Fractions	
☒ 	Section 3.4: Adding and Subtracting Mixed Numbers	 
☒ 	Section 3.5: Order Relations and the Order of Operations	
☒ 	4. Decimals	 
☒ 	Section 4.1: Reading and Writing Decimals	
☒ 	Section 4.2: Rounding Decimals	 
☒ 	Section 4.3: Adding and Subtracting Decimals	
☒ 	Section 4.4: Multiplying Decimals	 

☒ +	Section 4.5: Dividing Decimals	
☒ +	Section 4.6: Writing Fractions and Decimals	
☒ -	5. Ratio and Proportion	 
☒ +	Section 5.1: Ratios	
☒ +	Section 5.2: Rates	
☒ +	Section 5.3: Proportions	 
☒ +	Section 5.4: Solving Proportions	 
☒ +	Section 5.5: Solving Application Problems with Proportions	 
☒ -	6. Percent	 
☒ +	Section 6.1: Basics of Percent	
☒ +	Section 6.2: Percents and Fractions	
☒ +	Section 6.3: Using the Percent Proportion and Identifying the Components in a Percent Problem	 
☒ +	Section 6.4: Using Proportions to Solve Percent Problems	 
☒ +	Section 6.5: Using the Percent Equation	 
☒ +	Section 6.6: Solving Application Problems with Percent	 
☒ +	Section 6.7: Simple Interest	
☒ +	Section 6.8: Compound Interest	
☒ -	7. Geometry and Measurement	 
☒ +	Section 7.1: Lines and Angles	
☒ +	Section 7.2: Rectangles and Squares	 
☒ +	Section 7.3: Parallelograms and Trapezoids	 
☒ +	Section 7.4: Triangles	 
☒ +	Section 7.5: Circles	 
☒ +	Section 7.6: Volume and Surface Area	 
☒ +	Section 7.7: Pythagorean Theorem	 
☒ +	Section 7.8: Congruent and Similar Triangles	 
☒ +	Section 7.9: Problem Solving with U.S. Customary Measurements	 
☒ +	Section 7.10: The Metric System--Length	 
☒ +	Section 7.11: The Metric System--Capacity and Weight (Mass)	
☒ +	Section 7.12: Problem Solving with Metric Measurement	
☒ +	Section 7.13: Metric--U.S. Customary Conversions and Temperature	
☐ +	8. Statistics	 
☒ -	9. The Real Number System	 
☒ +	Section 9.1: Exponents, Order of Operations, and Inequality	
☒ +	Section 9.2: Variables, Expressions, and Equations	 

☒ +	Section 9.3: Real Numbers and the Number Line		
☒ +	Section 9.4: Adding Real Numbers		
☒ +	Section 9.5: Subtracting Real Numbers		
☒ +	Section 9.6: Multiplying and Dividing Real Numbers		
☒ +	Section 9.7: Properties of Real Numbers		
☒ +	Section 9.8: Simplifying Expressions		
☒ -	10. Equations, Inequalities, and Applications (partially included)		
☒ +	Section 10.1: The Addition Property of Equality		
☒ +	Section 10.2: The Multiplication Property of Equality		
☒ +	Section 10.3: More on Solving Linear Equations		
☒ +	Section 10.4: An Introduction to Applications of Linear Equations		
☒ +	Section 10.5: Formulas and Applications from Geometry		
☐ +	Section 10.6: Solving Linear Inequalities		
☐ +	Section 10.7: Compound Inequalities		
☐ +	Section 10.8: Absolute Value Equations		
☐ +	Section 10.9: Absolute Value Inequalities		
☒ -	11. Graphs of Equations, Functions, and Inequalities in Two Variables (partially included)		
☒ +	Section 11.1: Reading Graphs: Linear Equations in Two Variables		
☒ +	Section 11.2: Graphing Linear Equations in Two Variables		
☐ +	Section 11.3: Slope of a Line		
☐ +	Section 11.4: Equations of Lines		
☐ +	Section 11.5: Graphing Linear Inequalities in Two Variables		
☐ +	Section 11.6: Introduction to Functions		
☐ +	Section 11.7: Graphing Linear Functions		
☐ +	Section 11.8: Piecewise-Defined Functions; Shifting & Reflecting Graphs		
☐ +	Section 11.9: Distance and Midpoint Formulas; Circles		
☐ +	Section 11.10: More on Functions and Their Graphs		
☒ -	12. Exponents and Polynomials (partially included)		
☒ +	Section 12.1: Adding and Subtracting Polynomials		
☒ +	Section 12.2: The Product Rule and Power Rules for Exponents		
☒ +	Section 12.3: Multiplying Polynomials		
☒ +	Section 12.4: Special Products		

