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Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.RP.1	Interpret the concept of a ratio as the relationship between two quantities, including part to part and part to whole.	Textbook	2: Relating Quantities	1: Ratios	1: It's All Relative: Introduction to Ratio and Ratio Reasoning pp. M2-7–M2-24
		MATHia Software	2: Relating Quantities	1: Ratio Reasoning	2: Going Strong: Comparing Quantities to Solve Problems pp. M2-25–M2-36
6.RP.2	Investigate relationships between ratios and rates.	Textbook	2: Relating Quantities	3: Unit Rates and Conversions	3: Oh, Yes, I Am the Muffin Man: Determining Equivalent Ratios pp. M2-37–M2-56
6.RP.2a	Translate between multiple representations of ratios (i.e., a/b , $a : b$, a to b , visual models).	Textbook	2: Relating Quantities	3: Unit Rates and Conversions	4: A Trip to the Moon: Using Tables to Represent Equivalent Ratios pp. M2-57–M2-68
6.RP.2b	Recognize that a rate is a type of ratio involving two different units.	Textbook	2: Relating Quantities	3: Unit Rates and Conversions	5: They're Growing!: Graphs of Ratios pp. M2-69–M2-84
6.RP.2c	Convert from rates to unit rates.	Textbook	2: Relating Quantities	3: Unit Rates and Conversions	6: One Is Not Enough: Using and Comparing Ratio Representations pp. M2-85–M2-98
6.RP.3a	Create a table consisting of equivalent ratios and plot the results on the coordinate plane.	Textbook	2: Relating Quantities	1: Ratios	1: Understanding Ratio Relationships
					5: They're Growing!: Graphs of Ratios pp. M2-69–M2-84
6.RP.3b	Use multiple representations, including tape diagrams, tables, double number lines, and equations, to find missing values of equivalent ratios.	Textbook	2: Relating Quantities	1: Ratios	2: What Is the Best Buy?: Introduction to Unit Rates pp. M2-185–M2-198

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6.RP.3b	Use multiple representations, including tape diagrams, tables, double number lines, and equations, to find missing values of equivalent ratios.	Textbook	2: Relating Quantities	1: Ratios	4: A Trip to the Moon: Using Tables to Represent Equivalent Ratios pp. M2-57–M2-68
					5: They're Growing!: Graphs of Ratios pp. M2-69–M2-84
					6: One Is Not Enough: Using and Comparing Ratio Representations pp. M2-85–M2-98
		MATHia Software	2: Relating Quantities	1: Ratio Reasoning	2: Equivalent Ratios
					3: Multiple Representations Of Ratios
					1: Problem Solving with Equivalent Ratios and Rates Using Tables
2: Problem Solving Using Ratio and Rate Reasoning					
2: Problem Solving with Equivalent Ratios and Rates Using Double Number Lines					
3: Problem Solving with Equivalent Ratios and Rates Using Graphs					
6.RP.3c	Use two tables to compare related ratios.	Textbook	2: Relating Quantities	1: Ratios	2: Going Strong: Comparing Quantities to Solve Problems pp. M2-25–M2-36
					3: Oh, Yes, I Am the Muffin Man: Determining Equivalent Ratios pp. M2-37–M2-56
					6: One Is Not Enough: Using and Comparing Ratio Representations pp. M2-85–M2-98
6.RP.3d	Apply concepts of unit rate to solve problems, including unit pricing and constant speed.	Textbook	2: Relating Quantities	3: Unit Rates and Conversions	2: What Is the Best Buy?: Introduction to Unit Rates pp. M2-185–M2-198
		MATHia Software	2: Relating Quantities	4: Rate Reasoning	3: Seeing Things Differently: Multiple Representations of Unit Rates pp. M2-199–M2-208
6.RP.3e	Understand that a percentage is a rate per 100 and use this to solve problems involving wholes, parts, and percentages.	Textbook	2: Relating Quantities	2: Percents	1: We Are Family!: Percent, Fraction, and Decimal Equivalents pp. M2-109–M2-122

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6.RP.3e	Understand that a percentage is a rate per 100 and use this to solve problems involving wholes, parts, and percentages.	Textbook	2: Relating Quantities	2: Percents	2: Warming the Bench: Using Estimation and Benchmark Percents pp. M2-123–M2-136
					3: The Forest for the Trees: Determining the Part and the Whole in Percent Problems pp. M2-137–M2-156
		MATHia Software	2: Relating Quantities	3: Introduction to Percent	1: Percent Models
					2: Fraction, Decimal, Percent Conversions
3: Determining a Part Given a Percent and a Whole					
4: Determining a Whole Give a Percent and a Part					
6.RP.3f	Solve one-step problems involving ratios and unit rates (e.g., dimensional analysis).	Textbook	2: Relating Quantities	1: Ratios	3: Oh, Yes, I Am the Muffin Man: Determining Equivalent Ratios pp. M2-37–M2-56
				3: Unit Rates and Conversions	1: Many Ways to Measure: Using Ratio Reasoning to Convert Units pp. M2-165–M2-184
		MATHia Software	2: Relating Quantities	5: Ratio Reasoning to Convert Units	1: Converting Within Systems
				2: Converting Between Systems	
6.NS.1	Compute and represent quotients of positive fractions using a variety of procedures (e.g., visual models, equations, and real-world situations).	Textbook	1: Composing and Decomposing	2: Positive Rational Numbers	1: Think Rationally: Identifying and Ordering Rational Numbers pp. M1-71–M1-82
					2: Did You Get the Part?: Multiplying and Dividing with Fractions pp. M1-83–M1-92
					3: Yours Is to Reason Why!: Fraction by Fraction Division pp. M1-93–M1-106
		MATHia Software	1: Composing and Decomposing	3: Fraction Division	1: Representing Fraction Division
2: Interpreting Remainders using Models					
3: Developing the Fraction Division Algorithm					
4: Multiplying and Dividing Rational Numbers					
6.NS.2	Fluently divide multi-digit whole numbers using a standard algorithmic approach.	Textbook	1: Composing and Decomposing	3: Decimals and Volume	4: Dividend in the House: Dividing with Volume and Surface Area pp. M1-165–M1-175

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.NS.3	Fluently add, subtract, multiply and divide multi-digit decimal numbers using a standard algorithmic approach.	Textbook	1: Composing and Decomposing	3: Decimals and Volume	1: Length, Width, and Depth: Deepening Understanding of Volume pp. M1-115–M1-130
					2: Which Warehouse?: Volume Composition and Decomposition pp. M1-131–M1-142
					3: Breaking the Fourth Wall: Surface Area of Rectangular Prisms and Pyramids pp. M1-143–M1-164
					4: Dividend in the House: Dividing with Volume and Surface Area pp. M1-165–M1-175
		MATHia Software	1: Composing and Decomposing	4: Decimal Operations	1: Converting Fractions to Decimals
					2: Adding and Subtracting Decimals
					3: Decimal Sums and Differences
					4: Exploring Decimal Facts
					5: Patterns with Products and Quotients
					6: Multiplying Decimals
6.NS.4	Find common factors and multiples using two whole numbers.	Textbook	1: Composing and Decomposing	1: Factors and Area	7: Decimal Products
					8: Dividing Decimals
6.NS.4a	Compute the greatest common factor (GCF) of two numbers both less than or equal to 100.	Textbook	1: Composing and Decomposing	1: Factors and Area	9: Whole Number and Decimal Quotients
					4: Searching for Common Ground: Common Factors and Common Multiples pp. M1-39–M1-50
		MATHia Software	1: Composing and Decomposing	1: Number Properties	4: Identifying Greatest Common Factors and Least Common Multiples

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.NS.4b	Compute the least common multiple (LCM) of two numbers both less than or equal to 12.	Textbook	1: Composing and Decomposing	1: Factors and Area	4: Searching for Common Ground: Common Factors and Common Multiples pp. M1-39–M1-50 5: Composing and Decomposing Numbers: Least Common Multiple and Greatest Common Factor pp. M1-51–M1-60
		MATHia Software	1: Composing and Decomposing	1: Number Properties	4: Identifying Greatest Common Factors and Least Common Multiples
6.NS.4c	Express sums of two whole numbers, each less than or equal to 100, using the distributive property to factor out a common factor of the original addends.	Textbook	1: Composing and Decomposing	1: Factors and Area	4: Searching for Common Ground: Common Factors and Common Multiples pp. M1-39–M1-50 5: Composing and Decomposing Numbers: Least Common Multiple and Greatest Common Factor pp. M1-51–M1-60
6.NS.5	Understand that the positive and negative representations of a number are opposites in direction and value. Use integers to represent quantities in real-world situations and explain the meaning of zero in each situation.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7–M4-22
		MATHia Software	4: Beyond Positive Quantities	1: Integers	1: Introduction to Negative Numbers
6.NS.6a	Understand the concept of opposite numbers, including zero, and their relative locations on the number line.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7–M4-22
		MATHia Software	4: Beyond Positive Quantities	1: Integers	1: Introduction to Negative Numbers 2: Representing Integers on Number Lines
6.NS.6b	Understand that the signs of the coordinates in ordered pairs indicate their location on an axis or in a quadrant on the coordinate plane.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472
		MATHia Software	4: Beyond Positive Quantities	1: Integers 2: The Coordinate Plane	1: Introduction to Negative Numbers 1: Exploring Symmetry on the Coordinate Plane
6.NS.6c	Recognize when ordered pairs are reflections of each other on the coordinate plane across one axis, both axes, or the origin.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472
		MATHia Software	4: Beyond Positive Quantities	1: Integers 2: The Coordinate Plane	1: Introduction to Negative Numbers 1: Exploring Symmetry on the Coordinate Plane

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.NS.6d	Plot rational numbers on number lines and ordered pairs on coordinate planes.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7–M4-22
				3: What's In a Name?: Rational Number System pp. M4-35–M4-46	
		MATHia Software	4: Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472
				2: The Coordinate Plane	1: Exploring Symmetry on the Coordinate Plane 2: Identifying and Interpreting Ordered Pairs 3: Plotting Points
6.NS.7a	Interpret statements using equal to (=) and not equal to (\neq).	Textbook	1: Composing and Decomposing	2: Positive Rational Numbers	1: Think Rationally: Identifying and Ordering Rational Numbers pp. M1-71–M1-82
			4: Moving Beyond Positive Quantities	1: Signed Numbers	2: Magnitude Magnificence: Absolute Value pp. M4-23–M4-34
6.NS.7b	Interpret statements using less than (<), greater than (>), and equal to (=) as relative locations on the number line.	Textbook	1: Composing and Decomposing	2: Positive Rational Numbers	1: Think Rationally: Identifying and Ordering Rational Numbers pp. M1-71–M1-82
			4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7–M4-22
		MATHia Software	4: Beyond Positive Quantities	1: Integers	2: Representing Integers on Number Lines
6.NS.7c	Write, interpret, and explain statements of order for rational numbers in real world contexts.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	1: Human Number Line: Introduction to Negative Numbers pp. M4-7–M4-22
		MATHia Software	4: Beyond Positive Quantities	1: Integers	3: Using Absolute Value
6.NS.7d	Understand that absolute value represents a number's distance from zero on the number line and use the absolute value of a rational number to represent real-world situations.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	2: Magnitude Magnificence: Absolute Value pp. M4-23–M4-34
		MATHia Software	4: Beyond Positive Quantities	1: Integers	3: Using Absolute Value
6.NS.7e	Recognize the difference between comparing absolute values and ordering rational numbers. For negative rational numbers, understand that as the absolute value increases, the value of the negative number decreases.	Textbook	4: Moving Beyond Positive Quantities	1: Signed Numbers	2: Magnitude Magnificence: Absolute Value pp. M4-23–M4-34
		MATHia Software	4: Moving Beyond Positive Quantities	1: Integers	3: Using Absolute Value

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6.NS.8	Extend knowledge of the coordinate plane to solve real-world and mathematical problems involving rational numbers.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472
6.NS.8a	Plot points in all four quadrants to represent the problem.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472
					2: It's a Bird, It's a Plane... It's a Polygon on the Plane!: Graphing Geometric Figures pp. M4-73–M4-86
6.NS.8b	Find the distance between two points when ordered pairs have the same x-coordinates or same y-coordinates.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472
		MATHia Software	4: Beyond Positive Quantities	2: The Coordinate Plane	2: It's a Bird, It's a Plane... It's a Polygon on the Plane!: Graphing Geometric Figures pp. M4-73–M4-86 4: Drawing Polygons on the Coordinate Plane
6.NS.8c	Relate finding the distance between two points in a coordinate plane to absolute value using a number line.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	1: Four Is Better Than One: Extending the Coordinate Plane pp. M4-57–M472
					3: There Are Many Paths . . . : Problem Solving on the Coordinate Plane pp. M4-87–M4-111
6.NS.9	Investigate and translate among multiple representations of rational numbers (fractions, decimal numbers, percentages). Fractions should be limited to those with denominators of 2, 3, 4, 5, 8, 10, and 100.	Textbook	2: Relating Quantities	2: Percents	1: We Are Family!: Percent, Fraction, and Decimal Equivalents pp. M2-109–M2-122
					2: Warming the Bench: Using Estimation and Benchmark Percents pp. M2-123–M2-136
					3: The Forest for the Trees: Determining the Part and the Whole in Percent Problems pp. M2-137–M2-156

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE1.1	Write and evaluate numerical expressions involving whole-number exponents.	Textbook	3: Unknown Quantities	1: Expressions	1: Relationships Matter: Evaluating Numeric Expressions pp. M3-7–M3-22
		MATHia Software	3: Determining Unknown Quantities	1: Numeric Expressions	3: Writing and Evaluating Exponent Expressions
					6: Using Order of Operations to Evaluate Simple Numeric Expressions
					7: Using Order of Operations to Evaluate Numeric Expressions with Four Operations
					8: Using Order of Operations to Evaluate Numeric Expressions with Parentheses and Exponents
9: Using Order of Operations to Evaluate Numeric Expressions					
6.EE1.2	Extend the concepts of numerical expressions to algebraic expressions involving positive rational numbers.	Textbook	3: Unknown Quantities	1: Expressions	2: Into the Unknown: Introduction to Algebraic Expressions pp. M3-23–M3-34
		MATHia Software	3: Determining Unknown Quantities	1: Numeric Expressions	1: Evaluating One-Step Expressions with Whole Numbers 2: Evaluating Two-Step Expressions with Whole Numbers
6.EE1.2a	Translate between algebraic expressions and verbal phrases that include variables.	Textbook	3: Unknown Quantities	1: Expressions	2: Into the Unknown: Introduction to Algebraic Expressions pp. M3-23–M3-34
					3: Second Verse, Same as the First: Equivalent Expressions pp. M3-35–M3-52
					5: DVDs and Songs: Using Algebraic Expressions to Analyze and Solve Problems pp. M3-67–M3-76
6.EE1.2b	Investigate and identify parts of algebraic expressions using mathematical terminology, including term, coefficient, constant, and factor.	Textbook	1: Composing and Decomposing	1: Factors and Area	1: Taking Apart Numbers and Shapes: Writing Equivalent Expressions Using the Distributive Property pp. M1-7–M1-14
			3: Unknown Quantities	1: Expressions	2: Into the Unknown: Introduction to Algebraic Expressions pp. M3-23–M3-34
		MATHia Software	3: Determining Unknown Quantities	2: Algebraic Expressions	1: Identifying Parts of Algebraic Expressions

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE1.2c	Evaluate real-world and algebraic expressions for specific values using the Order of Operations. Grouping symbols should be limited to parentheses, braces, and brackets. Exponents should be limited to whole-numbers.	Textbook	3: Unknown Quantities	1: Expressions	2: Into the Unknown: Introduction to Algebraic Expressions pp. M3-23–M3-34
					5: DVDs and Songs: Using Algebraic Expressions to Analyze and Solve Problems pp. M3-67–M3-76
		MATHia Software	3: Determining Unknown Quantities	2: Algebraic Expressions	2: Evaluating Multi-Step Expressions
					3: Evaluating Expressions with Multiple Variables
6.EE1.3	Apply mathematical properties (e.g., commutative, associative, distributive) to generate equivalent expressions.	Textbook	1: Composing and Decomposing	1: Factors and Area	1: Taking Apart Numbers and Shapes: Writing Equivalent Expressions Using the Distributive Property pp. M1-7–M1-14
					3: Unknown Quantities
			1: Composing and Decomposing	1: Number Properties	
					MATHia Software
		2: Exploring the Distributive Property with Numeric Expressions			
		3: Using the Distributive Property with Numeric Expressions			
		4: Order of Operations			
		5: Applying the Order of Operations			
		2: Exploring the Distributive Property with Algebraic Expressions			
		3: Using Order of Operations to Rewrite Simple Algebraic Expressions			
		4: Using Order of Operations to Rewrite Algebraic Expressions with Four Operations			
		5: Using Order of Operations to Rewrite Algebraic Expressions with Parentheses and Exponents			
6: Using Order of Operations to Rewrite Algebraic Expressions					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE1.4	Apply mathematical properties (e.g., commutative, associative, distributive) to justify that two expressions are equivalent.	Textbook	3: Unknown Quantities	1: Expressions	4: Are They Saying the Same Thing?: Verifying Equivalent Expressions pp. M3-53–M3-66
		MATHia Software	3: Determining Unknown Quantities	3: Equivalent Algebraic Expressions	1: Modeling Equivalent Algebraic Expressions
6.EE1.5	Understand that if any solutions exist, the solution set for an equation or inequality consists of values that make the equation or inequality true.	Textbook	3: Unknown Quantities	2: Equations	1: First Among Equals: Reasoning with Equal Expressions pp. M3-87–M3-106
		MATHia Software	3: Determining Unknown Quantities	5: Solving One-Step Equations	1: Using Substitution to Identify Solutions To Equations
				6: Solving One-Step Inequalities	2: Using Substitution to Identify Solutions to Inequalities
6.EE1.6	Write expressions using variables to represent quantities in real-world and mathematical situations. Understand the meaning of the variable in the context of the situation.	Textbook	3: Unknown Quantities	1: Expressions	5: DVDs and Songs: Using Algebraic Expressions to Analyze and Solve Problems pp. M3-67–M3-76
				2: Equations	2: Bar None: Solving One-Step Addition Equations pp. M3-107–M3-118
					3: Play It in Reverse: Solving One-Step Multiplication Equations pp. M3-119–M3-134
					4: Getting Real: Solving Equations to Solve Problems pp. M3-135–M3-144
		MATHia Software	3: Determining Unknown Quantities	4: Reasoning with Expressions and Equations	4: Patterns and One-Step Expressions
				7: Problem Solving with One-Step Equations	3: Patterns and One-Step Equations
					4: Problem Solving Using Multiple Representations in the First Quadrant
5: Problem Solving with Decimals					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE1.7	Write and solve one-step linear equations in one variable involving nonnegative rational numbers for real-world and mathematical situations.	Textbook	3: Unknown Quantities	2: Equations	2: Bar None: Solving One-Step Addition Equations pp. M3-107–M3-118
					3: Play It in Reverse: Solving One-Step Multiplication Equations pp. M3-119–M3-134
					4: Getting Real: Solving Equations to Solve Problems pp. M3-135–M3-144
		MATHia Software	3: Determining Unknown Quantities	4: Reasoning with Expressions and Equations	1: Using Picture Algebra with Addition, Subtraction and Multiplication
					2: Using Picture Algebra with Multiplication, Total Given
					3: Using Picture Algebra with Addition and Subtraction, Total Given
				5: Solving One-Step Equations	2: Solving One-Step Equations with a Balance
					3: Representing One-Step Equations
					4: Solving with Addition and Subtraction (No Type In)
					5: Solving with Multiplication and Division (No Type In)
7: Problem Solving with One-Step Equations	6: Solving One-Step Equations (Type In)				
	3: Patterns and One-Step Equations				
6.EE1.8	Extend knowledge of inequalities used to compare numerical expressions to include algebraic expressions in real-world and mathematical situations.	Textbook	3: Unknown Quantities	2: Equations	1: First Among Equals: Reasoning with Equal Expressions pp. M3-87–M3-106
					MATHia Software
		4: Beyond Positive Quantities	1: Integers	4: Graphing Inequalities with Rational Numbers	
6.EE1.8a	Write an inequality of the form $x > c$ or $x < c$ and graph the solution set on a number line.	Textbook	3: Unknown Quantities	2: Equations	1: First Among Equals: Reasoning with Equal Expressions pp. M3-87–M3-106
					MATHia Software
		4: Beyond Positive Quantities	1: Integers	4: Graphing Inequalities with Rational Numbers	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE1.8b	Recognize that inequalities have infinitely many solutions.	Textbook	3: Unknown Quantities	2: Equations	1: First Among Equals: Reasoning with Equal Expressions pp. M3-87–M3-106
		MATHia Software	3: Determining Unknown Quantities	6: Solving One-Step Inequalities	1: Graphing Inequalities with Positive Rational Numbers
			4: Beyond Positive Quantities	1: Integers	4: Graphing Inequalities with Rational Numbers
6.EE1.9	Investigate multiple representations of relationships in real-world and mathematical situations.	Textbook	3: Unknown Quantities	3: Graphing Quantitative Relationships	1: Every Graph Tells a Story: Independent and Dependent Variables pp. M3-155–M3-182
					2: The Power of the Horizontal Line: Using Graphs to Solve One-Step Equations pp. M3-183–M3-193
					3: Planes, Trains, and Paychecks: Multiple Representations of Equations pp. M3-194–M3-206
					4: Triathlon Training: Relating Distance, Rate, and Time pp. M3-207–M3-220
			4: Moving Beyond Positive Quantities	2: The Four Quadrants	3: There Are Many Paths . . . : Problem Solving on the Coordinate Plane pp. M4-87–M4-111
		MATHia Software	3: Determining Unknown Quantities	7: Problem Solving with One-Step Equations	1: Modeling Scenarios with Equations
4: Moving Beyond Positive Quantities	3: Multiple Representations		2: Analyzing Models of One-Step Linear Relationships		
			2: Solving One-Step Equations Using Multiple Representations in Four Quadrants		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE1.9a	Write an equation that models a relationship between independent and dependent variables.	Textbook		2: Equations	4: Getting Real: Solving Equations to Solve Problems pp. M3-135–M3-144
				3: Graphing Quantitative Relationships	1: Every Graph Tells a Story: Independent and Dependent Variables pp. M3-155–M3-182
			2: The Power of the Horizontal Line: Using Graphs to Solve One-Step Equations pp. M3-183–M3-193		
			3: Planes, Trains, and Paychecks: Multiple Representations of Equations pp. M3-194–M3-206		
			4: Triathlon Training: Relating Distance, Rate, and Time pp. M3-207–M3-220		
		4: Moving Beyond Positive Quantities	2: The Four Quadrants	3: There Are Many Paths . . . : Problem Solving on the Coordinate Plane pp. M4-87–M4-111	
		MATHia Software	3: Determining Unknown Quantities	4: Reasoning with Expressions and Equations	4: Patterns and One-Step Expressions
4: Moving Beyond Positive Quantities	3: Multiple Representations		2: Solving One-Step Equations Using Multiple Representations in Four Quadrants		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.EE1.9b	Analyze the relationship between independent and dependent variables using graphs and tables.	Textbook	3: Unknown Quantities	3: Graphing Quantitative Relationships	1: Every Graph Tells a Story: Independent and Dependent Variables pp. M3-155–M3-182
					2: The Power of the Horizontal Line: Using Graphs to Solve One-Step Equations pp. M3-183–M3-193
					3: Planes, Trains, and Paychecks: Multiple Representations of Equations pp. M3-194–M3-206
					4: Triathlon Training: Relating Distance, Rate, and Time pp. M3-207–M3-220
		MATHia Software	4: Moving Beyond Positive Quantities	2: The Four Quadrants	3: There Are Many Paths . . . : Problem Solving on the Coordinate Plane pp. M4-87–M4-111
					4: Reasoning with Expressions and Equations
4: Moving Beyond Positive Quantities	3: Multiple Representations	1: Writing an Expression from a Scenario, Table, or Graph			
		2: Solving One-Step Equations Using Multiple Representations in Four Quadrants			
6.EE1.9c	Translate among graphs, tables, and equations.	Textbook	3: Unknown Quantities	3: Graphing Quantitative Relationships	1: Every Graph Tells a Story: Independent and Dependent Variables pp. M3-155–M3-182
					2: The Power of the Horizontal Line: Using Graphs to Solve One-Step Equations pp. M3-183–M3-193
					3: Planes, Trains, and Paychecks: Multiple Representations of Equations pp. M3-194–M3-206
					4: Triathlon Training: Relating Distance, Rate, and Time pp. M3-207–M3-220
		MATHia Software	4: Moving Beyond Positive Quantities	2: The Four Quadrants	3: There Are Many Paths . . . : Problem Solving on the Coordinate Plane pp. M4-87–M4-111
					3: Multiple Representations

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.GM.1	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	Textbook	1: Composing and Decomposing	1: Factors and Area	2: All About That Base...and Height: Area of Triangles and Quadrilaterals pp. M1-15–M1-28 3: Slicing and Dicing: Composite Figures pp. M1-29–M1-38
		MATHia Software	1: Composing and Decomposing	2: Area	1: Calculating Area of Rectangles
					2: Developing Area Formulas
					2: Calculating Area of Various Figures
					4: Solving Area Problems 5: Calculating Area of Composite Figures
6.GM.2	Use visual models (e.g., model by packing) to discover that the formulas for the volume of a right rectangular prism ($V = lwh$, $V = Bh$) are the same for whole or fractional edge lengths. Apply these formulas to solve real-world and mathematical problems.	Textbook	1: Composing and Decomposing	3: Decimals and Volume	1: Length, Width, and Depth: Deepening Understanding of Volume pp. M1-115–M1-130 2: Which Warehouse?: Volume Composition and Decomposition pp. M1-131–M1-142
		MATHia Software	1: Composing and Decomposing	5: Volume and Surface Area	1: Determining Volume Using Unit Fraction Cubes
					2: Calculating Volume of Right Prisms
6.GM.3	Apply the concepts of polygons and the coordinate plane to real-world and mathematical situations.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	2: It's a Bird, It's a Plane... It's a Polygon on the Plane!: Graphing Geometric Figures pp. M4-73–M4-86
		MATHia Software	4: Moving Beyond Positive Quantities	2: The Coordinate Plane	4: Drawing Polygons on the Coordinate Plane
6.GM.3a	Given coordinates of the vertices, draw a polygon in the coordinate plane.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	2: It's a Bird, It's a Plane... It's a Polygon on the Plane!: Graphing Geometric Figures pp. M4-73–M4-86
		MATHia Software	4: Moving Beyond Positive Quantities	2: The Coordinate Plane	4: Drawing Polygons on the Coordinate Plane
6.GM.3b	Find the length of an edge if the vertices have the same x-coordinates or same y-coordinates.	Textbook	4: Moving Beyond Positive Quantities	2: The Four Quadrants	2: It's a Bird, It's a Plane... It's a Polygon on the Plane!: Graphing Geometric Figures pp. M4-73–M4-86
		MATHia Software	4: Moving Beyond Positive Quantities	2: The Coordinate Plane	4: Drawing Polygons on the Coordinate Plane
6.GM.4	Unfold three-dimensional figures into two-dimensional rectangles and triangles (nets) to find the surface area and to solve real-world and mathematical problems.	Textbook	1: Composing and Decomposing	3: Decimals and Volume	3: Breaking the Fourth Wall: Surface Area of Rectangular Prisms and Pyramids pp. M1-143–M1-164
		MATHia Software	1: Composing and Decomposing	5: Volume and Surface Area	3: Determining Surface Area Using Nets 4: Calculating Surface Area of Right Prisms

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.DS.1	Differentiate between statistical and non-statistical questions.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	1: What's Your Question?: Understanding the Statistical Process pp. M5-7–M5-24
		MATHia Software	5: Describing Variability of Quantities	1: Displays of Numerical Data	1: Analyzing Distributions with Shape, Center, and Spread
6.DS.2	Use center (mean, median, mode), spread (range, interquartile range, mean absolute value), and shape (symmetrical, skewed left, skewed right) to describe the distribution of a set of data collected to answer a statistical question.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46
					3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
				2: Numerical Summaries of data	1: Center of Attention: Analyzing Data Using Measures of Center pp. M5-71–M5-86
					2: Box It Up: Displaying the Five-Number Summary pp. M5-87–M5-104
	3: March MADness: Mean Absolute Deviation pp. M5-105–M5-116				
6.DS.3	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	Textbook	5: Describing Variability of Quantities	2: Numerical Summaries of data	1: Center of Attention: Analyzing Data Using Measures of Center pp. M5-71–M5-90
					2: Box It Up: Displaying the Five-Number Summary pp. M5-91–M5-108
					3: March MADness: Mean Absolute Deviation pp. M5-109–M5-120
		MATHia Software	5: Describing Variability of Quantities	2: Measures of Central Tendency	2: Determining Measures of Center
				3: Mean Absolute Deviation	1: Calculating Mean Absolute Deviation
		2: Using Mean Absolute Deviation			

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.DS.4	Select and create an appropriate display for numerical data, including dot plots, histograms, and box plots.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46 3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
				2: Numerical Summaries of data	2: Box It Up: Displaying the Five-Number Summary pp. M5-91–M5-108
		MATHia Software	5: Describing Variability of Quantities	1: Displays of Numerical Data	2: Creating and Interpreting Stem Plots 3: Creating and Interpreting Dot Plots 4: Creating and Interpreting Histograms
				4: Box Plots	1: Constructing Box Plots 2: Interpreting Box Plots
6.DS.5	Describe numerical data sets in relation to their real-world context.	MATHia Software	5: Describing Variability of Quantities	4: Box Plots	1: Constructing Box Plots 2: Interpreting Box Plots
6.DS.5a	State the sample size.	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46 3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
				2: Numerical Summaries of data	4: You Chose...Wisely: Choosing Appropriate Measures pp. M5-121–M5-134
		MATHia Software	5: Describing Variability of Quantities	1: Displays of Numerical Data	2: Creating and Interpreting Stem Plots 3: Creating and Interpreting Dot Plots 4: Creating and Interpreting Histograms
6.DS.5b	Describe the qualitative aspects of the data (e.g., how it was measured, units of measurement).	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46 3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
		MATHia Software	5: Describing Variability of Quantities	1: Displays of Numerical Data	2: Creating and Interpreting Stem Plots 3: Creating and Interpreting Dot Plots 4: Creating and Interpreting Histograms

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.DS.5c	Give measures of center (median, mean).	Textbook	5: Describing Variability of Quantities	1: The Statistical Process	2: Get in Shape: Analyzing Numerical Data Displays pp. M5-25–M5-46
					3: Skyscrapers: Using Histograms to Display Data pp. M5-47–M5-60
				2: Numerical Summaries of data	1: Center of Attention: Analyzing Data Using Measures of Center pp. M5-71–M5-90
					2: Box It Up: Displaying the Five-Number Summary pp. M5-91–M5-108
		MATHia Software	5: Describing Variability of Quantities	2: Measures of Central Tendency	3: March MADness: Mean Absolute Deviation pp. M5-109–M5-120
					4: You Chose...Wisely: Choosing Appropriate Measures pp. M5-121–M5-134
MATHia Software	5: Describing Variability of Quantities	3: Mean Absolute Deviation	1: Calculating Mean, Median, Mode, and Range		
			3: Comparing and Interpreting Measures of Center		
6.DS.5d	Find measures of variability (interquartile range, mean absolute deviation) using a number line.	Textbook	5: Describing Variability of Quantities	2: Numerical Summaries of data	2: Box It Up: Displaying the Five-Number Summary pp. M5-91–M5-108
					3: March MADness: Mean Absolute Deviation pp. M5-109–M5-120
					4: You Chose...Wisely: Choosing Appropriate Measures pp. M5-121–M5-134
		MATHia Software	5: Describing Variability of Quantities	3: Mean Absolute Deviation	1: Calculating Mean Absolute Deviation
2: Using Mean Absolute Deviation					
6.DS.5e	Describe the overall pattern (shape) of the distribution.	Textbook	5: Describing Variability of Quantities	2: Numerical Summaries of data	3: March MADness: Mean Absolute Deviation pp. M5-109–M5-120
					4: You Chose...Wisely: Choosing Appropriate Measures pp. M5-121–M5-134
MATHia Software	5: Describing Variability of Quantities	3: Mean Absolute Deviation	2: Using Mean Absolute Deviation		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit(MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
6.DS.5f	Justify the choices for measure of center and measure of variability based on the shape of the distribution.	Textbook	5: Describing Variability of Quantities	2: Numerical Summaries of data	4: You Chose...Wisely: Choosing Appropriate Measures pp. M5-121–M5-134
		MATHia Software	5: Describing Variability of Quantities	2: Measures of Central Tendency	3: Comparing and Interpreting Measures of Center
6.DS.5g	Describe the impact that inserting or deleting a data point has on the measures of center (median, mean) for a data set.	Textbook	5: Describing Variability of Quantities	2: Numerical Summaries of data	1: Center of Attention: Analyzing Data Using Measures of Center pp. M5-71–M5-90
		MATHia Software	5: Describing Variability of Quantities	2: Measures of Central Tendency	4: Measuring the Effects of Changing Data Sets