

## Table of Contents

M.ACC7.1.....	1	M.ACC7.10b.....	7	M.ACC7.26.....	17	M.ACC7.39.....	23
M.ACC7.2.....	1	M.ACC7.11.....	8	M.ACC7.26a.....	17	M.ACC7.40.....	23
M.ACC7.2a.....	1	M.ACC7.12.....	8	M.ACC7.26b.....	17	M.ACC7.41.....	24
M.ACC7.2b.....	1	M.ACC7.13.....	8	M.ACC7.26c.....	17	M.ACC7.42.....	24
M.ACC7.2c.....	2	M.ACC7.14.....	9	M.ACC7.26d.....	17	M.ACC7.42a.....	25
M.ACC7.3.....	2	M.ACC7.15.....	9	M.ACC7.26e.....	17	M.ACC7.43.....	26
M.ACC7.3.....	3	M.ACC7.15a.....	9	M.ACC7.27.....	18	M.ACC7.44.....	26
M.ACC7.4.....	3	M.ACC7.15b.....	9	M.ACC7.28.....	18		
M.ACC7.5.....	3	M.ACC7.16.....	9	M.ACC7.29.....	18		
M.ACC7.5a.....	3	M.ACC7.16a.....	9	M.ACC7.30.....	18		
M.ACC7.6.....	3	M.ACC7.16b.....	10	M.ACC7.30a.....	19		
M.ACC7.6a.....	4	M.ACC7.16c.....	10	M.ACC7.30b.....	19		
M.ACC7.6b.....	4	M.ACC7.17.....	10	M.ACC7.31.....	19		
M.ACC7.6c.....	5	M.ACC7.18.....	10	M.ACC7.31a.....	20		
M.ACC7.6d.....	5	M.ACC7.18a.....	11	M.ACC7.32.....	20		
M.ACC7.7.....	5	M.ACC7.18b.....	12	M.ACC7.32a.....	20		
M.ACC7.8.....	5	M.ACC7.19.....	12	M.ACC7.32b.....	21		
M.ACC7.8a.....	6	M.ACC7.20.....	12	M.ACC7.32c.....	21		
M.ACC7.8b.....	6	M.ACC7.21.....	13	M.ACC7.33.....	21		
M.ACC7.8c.....	6	M.ACC7.21a.....	13	M.ACC7.34.....	21		
M.ACC7.8d.....	6	M.ACC7.21b.....	13	M.ACC7.35.....	21		
M.ACC7.8e.....	6	M.ACC7.22.....	14	M.ACC7.36.....	22		
M.ACC7.8f.....	6	M.ACC7.23.....	14	M.ACC7.36a.....	22		
M.ACC7.8g.....	7	M.ACC7.23.....	15	M.ACC7.36b.....	22		
M.ACC7.9.....	7	M.ACC7.23a.....	16	M.ACC7.37.....	22		
M.ACC7.10.....	7	M.ACC7.24.....	16	M.ACC7.38.....	22		
M.ACC7.10a.....	7	M.ACC7.25.....	16	M.ACC7.38a.....	23		

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.1</b>	Calculate unit rates of length, area, and other quantities measured in like or different units that include ratios or fractions.	Course 2 Textbook	1: Thinking Proportionally	2: Fractional Rates	1: Making Punch: Unit Rate Representations pp. M1-51–M1-58 2: Eggzactly!: Solving Problems with Ratios of Fractions pp. M1-59–M1-68
		Course 2 MATHia	1: Thinking Proportionally	2: Ratio and Rate Reasoning	1: Fractional Rates 2: Determining and Comparing Unit Rates
<b>M.ACC7.2</b>	Represent a relationship between two quantities and determine whether the two quantities are related proportionally.	Course 2 Textbook	1: Thinking Proportionally	3: Proportionality	4: Minding Your Ps and Qs: Constant of Proportionality in Multiple Representations pp. M1-139–M1-152
<b>M.ACC7.2a</b>	Use equivalent ratios displayed in a table or in a graph of the relationship in the coordinate plane to determine whether a relationship between two quantities is proportional.	Course 2 Textbook	1: Thinking Proportionally	3: Proportionality	1: How Does Your Garden Grow?: Proportional Relationships pp. M1-91–M1-108
		Course 2 MATHia Software	1: Thinking Proportionally	3: Proportional Reasoning	1: Proportional Relationships
				4: Representing Proportional Relationships by Equations	2: Determining Characteristics of Graphs of Proportional Relationships 1: Exploring Proportions
<b>M.ACC7.2b</b>	Identify the constant of proportionality (unit rate) and express the proportional relationship using multiple representations including tables, graphs, equations, diagrams, and verbal descriptions.	Course 2 Textbook	1: Thinking Proportionally	3: Proportionality	2: Complying with Title IX: Constant of Proportionality pp. M1-109–M1-125 3: Fish-Inches: Identifying the Constant of Proportionality in Graphs pp. M1-127–M1-138
		Course 2 MATHia Software	1: Thinking Proportionally	4: Representing Proportional Relationships by Equations	1: Exploring Proportions
					2: Writing Proportional Relationships with Equations
					3: Converting Between Forms of Proportional Relationships 4: Modeling the Constant of Proportionality

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.2c</b>	Explain in context the meaning of a point $(x, y)$ on the graph of a proportional relationship, with special attention to the points $(0, 0)$ and $(1, r)$ where $r$ is the unit rate.	Course 2 Textbook	1: Thinking Proportionally	3: Proportionality	2: Complying with Title IX: Constant of Proportionality pp. M1-109–M1-125
					3: Fish-Inches: Identifying the Constant of Proportionality in Graphs pp. M1-127–M1-138
		Course 2 MATHia Software	1: Thinking Proportionally	4: Representing Proportional Relationships by Equations	1: Exploring Proportions
					2: Writing Proportional Relationships with Equations
3: Converting Between Forms of Proportional Relationships					
4: Modeling the Constant of Proportionality					
<b>M.ACC7.3</b>	Solve multi-step percent problems in context using proportional reasoning, including simple interest, tax, gratuities, commissions, fees, markups and markdowns, percent increase, and percent decrease.	Course 2 Textbook	1: Thinking Proportionally	2: Fractional Rates	3: Tagging Sharks: Solving Proportions Using Means and Extremes pp. M1-69–M1-82
				4: Proportional Relationships	1: Markups and Markdowns: Introducing Proportions to Solve Percent Problems pp. M1-161–M1-176
			2: Perks of Work: Calculating Tips, Commission, and Simple Interest pp. M1-177–M1-195		
			3: No Taxation Without Calculation: Sales Tax, Income Tax, and Fees pp. M1-197–M1-208		
			4: More Ups and Downs: Percent Increase and Percent Decrease pp. M1-209–M1-222		
			2: Operating with Signed Numbers	2: Multiplying and Dividing Rational Numbers	3: Building a Wright Brothers' Flyer: Simplifying Expressions to Solve Problems pp. M2-113–M2-124
4: Analyzing Populations and Probabilities	1: Introduction to Probability	3: Toss the Cup: Determining Experimental Probability of Simple Events pp. M4-33–M4-46			

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.3</b>	Solve multi-step percent problems in context using proportional reasoning, including simple interest, tax, gratuities, commissions, fees, markups and markdowns, percent increase, and percent decrease.	Course 2 MATHia Software	1: Thinking Proportionally	5: Percent Conversions	1: Fractional Percent Models 2: Converting with Fractional Percents
				6: Proportional Reasoning and Percents	1: Using Proportions to Solve Percent Problems 2: Solving Simple Percent Problems
				7: Problem Solving with Percents Using Proportional Relationships	1: Calculating Percent Change and Final Amounts 2: Using Percents and Percent Change
				8: Calculating Sales Tax and Discounts	1: Calculating Sales Tax or Discounts
					2: Solving Problems with Both Sales Tax and Discounts 3: Analyzing Different Forms of Expressions
<b>M.ACC7.4</b>	Determine whether a relationship between two variables is proportional or non-proportional.	Course 3 Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	1: Post-Secondary Proportions: Representations of Proportional Relationships pp. M2-7–M2-22
<b>M.ACC7.5</b>	Graph proportional relationships.	Course 3 Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	1: Post-Secondary Proportions: Representations of Proportional Relationships pp. M2-7–M2-22 2: Jack and Jill Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
		Course 3 MATHia Software	2: Developing Function Foundations	1: Representing Proportional Relationships	4: Graphing Linear Relationships
<b>M.ACC7.5a</b>	Interpret the unit rate of a proportional relationship, describing the constant of proportionality as the slope of the graph which goes through the origin and has the equation $y = mx$ where $m$ is the slope.	Course 3 Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	1: Post-Secondary Proportions: Representations of Proportional Relationships pp. M2-7–M2-22 2: Jack and Jill Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42
		Course 3 MATHia Software	2: Developing Function Foundations	1: Representing Proportional Relationships	3: Understanding the Slopes of Lines
<b>M.ACC7.6</b>	Interpret $y = mx + b$ as defining a linear equation whose graph is a line with $m$ as the slope and $b$ as the $y$ -intercept.	Course 3 Textbook	2: Developing Function Foundations	2: Linear Relationships	4: Derby Day: Slope-Intercept Form of a Line pp. M2-119–M2-133
		Course 3 MATHia Software	2: Developing Function Foundations	3: Writing Equations of a Line	1: Connecting Slope-Intercept and Point-Slope Forms

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.6a</b>	Use similar triangles to explain why the slope $m$ is the same between any two distinct points on a non-vertical line in a coordinate plane.	Course 3 Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	2: Jack and Jill Went Up the Hill: Using Similar Triangles to Describe the Steepness of a Line pp. M2-23–M2-42 3: Slippery Slopes: Exploring Slopes Using Similar Triangles pp. M2-43–M2-52 4: Up, Down, and All Around: Transformations of Lines pp. M2-53–M2-72
		Course 3 MATHia Software	2: Developing Function Foundations	1: Representing Proportional Relationships	3: Understanding the Slopes of Lines
<b>M.ACC7.6b</b>	Given two distinct points in a coordinate plane, find the slope of the line containing the two points and explain why it will be the same for any two distinct points on the line.	Course 3 Textbook	2: Developing Function Foundations	2: Linear Relationships	1: U.S. Shirts: Using Tables, Graphs, and Equations pp. M2-81–M2-92
					2: At the Arcade: Linear Relationships in Tables pp. M2-93–M2-108
					3: Dining, Dancing, and Driving: Linear Relationships in Contexts pp. M2-109–M2-118
					4: Derby Day: Slope-Intercept Form of a Line pp. M2-119–M2-133
					5: What's the Point?: Point-Slope Form of a Line pp. M2-135–M2-150
					6: The Arts are Alive: Using Linear Equations pp. M2-151–M2-167
		Course 3 MATHia Software	2: Developing Function Foundations	1: Representing Proportional Relationships	1: Representing Proportional Relationships Algebraically
					2: Modeling the Constant of Proportionality
					4: Graphing Linear Relationships
				2: Linear Models	1: Multiple Representations of Linear Functions
					2: Modeling Linear Functions Using Multiple Representations
					3: Calculating Slopes
3: Writing Equations of a Line	2: Writing Equations Given Slope and a Point				
	3: Writing Equations Given Two Points				
	4: Modeling Linear Relationships Given an Initial Point				
				5: Modeling Linear Relationships Given Two Points	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
<b>M.ACC7.6c</b>	Graph linear relationships, interpreting the slope as the rate of change of the graph and the y-intercept as the initial value.	Course 3 Textbook	2: Developing Function Foundations	2: Linear Relationships	1: U.S. Shirts: Using Tables, Graphs, and Equations pp. M2-81–M2-92	
					3: Dining, Dancing, and Driving: Linear Relationships in Contexts pp. M2-109–M2-118	
					4: Derby Day: Slope-Intercept Form of a Line pp. M2-119–M2-133	
					6: The Arts are Alive: Using Linear Equations pp. M2-151–M2-167	
		Course 3 MATHia Software	2: Developing Function Foundations		1: Representing Proportional Relationships	4: Graphing Linear Relationships
					2: Linear Models	2: Modeling Linear Functions Using Multiple Representations
					4: Graphs of Linear Equations in Two Variables	2: Graphing Given an Integer Slope and y-Intercept 3: Graphing Given a Decimal Slope and y-Intercept
<b>M.ACC7.6d</b>	Given that the slopes for two different sets of points are equal, demonstrate that the linear equations that include those two sets of points may have different y-intercepts.	Course 3 Textbook	2: Developing Function Foundations	1: From Proportions to Linear Relationships	4: Up, Down, and All Around: Transformations of Lines pp. M2-53–M2-72	
<b>M.ACC7.7</b>	Compare proportional and non-proportional linear relationships represented in different ways (algebraically, graphically, numerically in tables, or by verbal descriptions) to solve real-world problems.	Course 3 Textbook	2: Developing Function Foundations	3: Introduction to Functions	5: Comparing Apples to Oranges: Comparing Functions Using Different Representations pp. M2-241–M2-256	
		Algebra I Textbook				4: Connect Four: Comparing Linear Functions in Different Forms pp. M2-59–M2-67
		Algebra I MATHia Software	2: Exploring Constant Change	3: Modeling with Linear Functions	3: Comparing Linear Functions in Multiple Forms	
<b>M.ACC7.8</b>	Apply and extend knowledge of operations of whole numbers, fractions, and decimals to add, subtract, multiply, and divide rational numbers including integers, signed fractions, and decimals.	Course 2 Textbook	2: Operating with Signed Numbers	1: Adding and Subtracting Rational Numbers	1: Math Football: Using Models to Understand Integer Addition pp. M2-7–M2-16	
				2: Multiplying and Dividing Rational Numbers	4: Properties Schmo-properties: Using Number Properties to Interpret Expressions with Signed Numbers pp. M2-125–M2-134	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.8a</b>	Identify and explain situations where the sum of opposite quantities is 0 and opposite quantities are defined as additive inverses.	Course 2 Textbook	2: Operating with Signed Numbers	1: Adding and Subtracting Rational Numbers	3: Two-Color Counters: Adding Integers, Part II pp. M2-31–M2-48
		Course 2 MATHia Software	2: Operating with Signed Numbers	1: Integer Operations	1: Understanding Opposites
<b>M.ACC7.8b</b>	Interpret the sum of two or more rational numbers, by using a number line and in real-world contexts.	Course 2 Textbook	2: Operating with Signed Numbers	1: Adding and Subtracting Rational Numbers	2: Walk the Line: Adding Integers, Part I pp. M2-17–M2-30 3: Two-Color Counters: Adding Integers, Part II pp. M2-31–M2-48
		Course 2 MATHia Software	2: Operating with Signed Numbers	1: Integer Operations	1: Understanding Opposites
					2: Adding and Subtracting Negative Integers
					3: Using Number Lines to Add and Subtract Integers
4: Developing Algorithms for Adding or Subtracting Integers					
<b>M.ACC7.8c</b>	Explain subtraction of rational numbers as addition of additive inverses.	Course 2 Textbook	2: Operating with Signed Numbers	1: Adding and Subtracting Rational Numbers	4: What's the Difference?: Subtracting Integers pp. M2-49–M2-68
		Course 2 MATHia Software	2: Operating with Signed Numbers	1: Integer Operations	2: Adding and Subtracting Negative Integers
					3: Using Number Lines to Add and Subtract Integers
4: Developing Algorithms for Adding or Subtracting Integers					
<b>M.ACC7.8d</b>	Use a number line to demonstrate 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.	Course 2 Textbook	2: Operating with Signed Numbers	1: Adding and Subtracting Rational Numbers	4: What's the Difference?: Subtracting Integers pp. M2-49–M2-68
		Course 2 MATHia Software	2: Operating with Signed Numbers	1: Integer Operations	3: Using Number Lines to Add and Subtract Integers
<b>M.ACC7.8e</b>	Extend strategies of multiplication to rational numbers to develop rules for multiplying signed numbers, showing that the properties of the operations are preserved.	Course 2 Textbook	2: Operating with Signed Numbers	2: Multiplying and Dividing Rational Numbers	1: Equal Groups: Multiplying and Dividing Integers pp. M2-89–M2-102
<b>M.ACC7.8f</b>	Divide integers and explain that division by zero is undefined. Interpret the quotient of integers (with a non-zero divisor) as a rational number.	Course 2 Textbook	2: Operating with Signed Numbers	2: Multiplying and Dividing Rational Numbers	2: Be Rational!: Quotients of Integers pp. M2-103–M2-112
		Course 2 MATHia Software	2: Operating with Signed Numbers	1: Integer Operations	5: Multiplying and Dividing Integers

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
<b>M.ACC7.8g</b>	Convert a rational number to a decimal using long division, explaining that the decimal form of a rational number terminates or eventually repeats.	Course 2 Textbook	2: Operating with Signed Numbers	2: Multiplying and Dividing Rational Numbers	2: Be Rational!: Quotients of Integers pp. M2-103–M2-112	
		Course 2 MATHia Software	2: Operating with Signed Numbers	1: Integer Operations	6: Converting Rational Numbers to Decimals	
<b>M.ACC7.9</b>	Solve real-world and mathematical problems involving the four operations of rational numbers, including complex fractions. Apply properties of operations as strategies where applicable.	Course 2 Textbook	2: Operating with Signed Numbers	1: Adding and Subtracting Rational Numbers	5: All Mixed Up: Adding and Subtracting Rational Numbers pp. M2-69–M2-80	
				2: Multiplying and Dividing Rational Numbers	1: Equal Groups: Multiplying and Dividing Integers pp. M2-89–M2-102	
					3: Building a Wright Brothers' Flyer: Simplifying Expressions to Solve Problems pp. M2-113–M2-124	
					4: Properties Schmo-properties: Using Number Properties to Interpret Expressions with Signed Numbers pp. M2-125–M2-134	
		Course 2 MATHia Software	2: Operating with Signed Numbers	2: Evaluating Numeric Expressions	1: Evaluating Simple Numeric Expressions with Integers	1: Evaluating Simple Numeric Expressions with Integers
					2: Evaluating Numeric Expressions Involving Integers with Parentheses and Exponents	2: Evaluating Numeric Expressions Involving Integers with Parentheses and Exponents
					3: Evaluating Simple Numeric Expressions with Rational Numbers	3: Evaluating Simple Numeric Expressions with Rational Numbers
					4: Evaluating Complex Numeric Expressions with Rational Numbers	4: Evaluating Complex Numeric Expressions with Rational Numbers
<b>M.ACC7.10</b>	Define the real number system as composed of rational and irrational numbers.	Course 3 Textbook	4: Expanding Number Systems	1: The Real Number System	1: So Many Numbers, So Little Time: Sorting Numbers pp. M4-7–M4-16	
					2: Rational Decisions: Rational and Irrational Numbers pp. M4-17–M4-30	
		Course 3 MATHia Software	4: Expanding Number Systems	1: Rational and Irrational Numbers	1: Introduction to Irrational Numbers	
					2: Graphing Real Numbers on a Number Line	
<b>M.ACC7.10a</b>	Explain that every number has a decimal expansion; for rational numbers, the decimal expansion repeats or terminates.	Course 3 Textbook	4: Expanding Number Systems	1: The Real Number System	3: Ordering Rational and Irrational Numbers	
					2: Rational Decisions: Rational and Irrational Numbers pp. M4-17–M4-30	
<b>M.ACC7.10b</b>	Convert a decimal expansion that repeats into a rational number.	Course 3 Textbook	4: Expanding Number Systems	1: The Real Number System	2: Rational Decisions: Rational and Irrational Numbers pp. M4-17–M4-30	



Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.11</b>	Locate rational approximations of irrational numbers on a number line, compare their sizes, and estimate the values of the irrational numbers.	Course 3 Textbook	4: Expanding Number Systems	1: The Real Number System	3: What are Those?!: The Real Numbers pp. M4-31–M4-45
		Course 3 MATHia Software	4: Expanding Number Systems	1: Rational and Irrational Numbers	1: Introduction to Irrational Numbers 2: Graphing Real Numbers on a Number Line 3: Ordering Rational and Irrational Numbers
<b>M.ACC7.12</b>	Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	Course 2 Textbook	3: Reasoning Algebraically	1: Algebraic Expressions	2: Mathematics Gymnastics: Rewriting Expressions Using the Distributive Property pp. M3-19–M3-32 3: All My Xs: Combining Like Terms pp. M3-33–M3-43
		Course 2 MATHia Software	3: Reasoning Algebraically	1: Variable Expressions	1: Factoring Linear Expressions
					2: Rewriting Simple Algebraic Expressions Involving Integer Coefficients
					3: Rewriting Algebraic Expressions Involving Integer Coefficients with Four Operations
					4: Rewriting Algebraic Expressions Involving Integer Coefficients with Parentheses and Exponents
					5: Rewriting Complex Algebraic Expressions Involving Integer Coefficients
6: Rewriting Algebraic Expressions Involving Integer Coefficients					
<b>M.ACC7.13</b>	Generate expressions in equivalent forms based on context and explain how the quantities are related.	Course 2 Textbook	3: Reasoning Algebraically	1: Algebraic Expressions	3: All My Xs: Combining Like Terms pp. M3-33–M3-43
		Course 2 MATHia Software	1: Thinking Proportionally	3: Multiple Representations of Equations	2: Stretches, Stacks, and Structure: Structure of Linear Equations pp. M3-139–M3-153
				8: Calculating Sales Tax and Discounts	3: Analyzing Different Forms of Expressions

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.14</b>	Develop and apply properties of integer exponents to generate equivalent numerical and algebraic expressions.	Course 3 Textbook	5: Applying Powers	1: Exponents and Scientific Notation	1: It's a Generational Thing: Properties of Powers with Integer Exponents pp. M5-7–M5-27
					2: Show What You Know: Analyzing Properties of Powers pp. M5-29–M5-41
		Course 3 MATHia Software	5: Applying Powers	1: Properties of Whole Number Exponents	1: Introduction to the Power Rules
					2: Using the Product Rule and the Quotient Rule
					3: Using the Power to a Power Rule
					4: Using the Product to a Power Rule and the Quotient to a Power Rule
5: Using Properties of Exponents with Whole Number Powers					
6: Rewriting Expressions with Negative and Zero Exponents					
<b>M.ACC7.15</b>	Use square root and cube root symbols to represent solutions to equations.	Course 3 Textbook	4: Expanding Number Systems	1: The Real Number System	3: What are Those?: The Real Numbers pp. M4-31–M4-45
<b>M.ACC7.15a</b>	Evaluate square roots of perfect squares (less than or equal to 225) and cube roots of perfect cubes (less than or equal to 1000).	Course 3 Textbook	4: Expanding Number Systems	1: The Real Number System	3: What are Those?: The Real Numbers pp. M4-31–M4-45
<b>M.ACC7.15b</b>	Explain that the square root of a non-perfect square is irrational.	Course 3 Textbook	4: Expanding Number Systems	1: The Real Number System	3: What are Those?: The Real Numbers pp. M4-31–M4-45
<b>M.ACC7.16</b>	Express and compare very large or very small numbers in scientific notation.	Course 3 Textbook	5: Applying Powers	1: Exponents and Scientific Notation	3: The Big and Small of It: Scientific Notation pp. M5-43–M5-60
		Course 3 MATHia Software	5: Applying Powers	2: Scientific Notation	4: How Much Larger?: Operations with Scientific Notation pp. M5-61–M5-76
<b>M.ACC7.16a</b>	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used, expressing answers in scientific notation.	Course 3 Textbook	5: Applying Powers	1: Exponents and Scientific Notation	2: Comparing Numbers using Scientific Notation
		Course 3 MATHia Software	5: Applying Powers	2: Scientific Notation	3: The Big and Small of It: Scientific Notation pp. M5-43–M5-60
					4: How Much Larger?: Operations with Scientific Notation pp. M5-61–M5-76
					1: Using Scientific Notation

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.16b</b>	Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities.	Course 3 Textbook	5: Applying Powers	1: Exponents and Scientific Notation	3: The Big and Small of It: Scientific Notation pp. M5-43–M5-60 4: How Much Larger?: Operations with Scientific Notation pp. M5-61–M5-76
		Course 3 MATHia Software	5: Applying Powers	2: Scientific Notation	1: Using Scientific Notation
<b>M.ACC7.16c</b>	Interpret scientific notation that has been generated by technology.	Course 3 Textbook	5: Applying Powers	1: Exponents and Scientific Notation	3: The Big and Small of It: Scientific Notation pp. M5-43–M5-60 4: How Much Larger?: Operations with Scientific Notation pp. M5-61–M5-76
<b>M.ACC7.17</b>	Solve multi-step real-world and mathematical problems involving rational numbers (integers, signed fractions and decimals), converting between forms as needed. Assess the reasonableness of answers using mental computation and estimation strategies.	Course 2 Textbook	3: Reasoning Algebraically	1: Algebraic Expressions	1: No Substitute for Hard Work: Evaluating Algebraic Expressions pp. M3-7–M3-18
		Course 2 MATHia Software	3: Reasoning Algebraically	5: Problem Solving with Two-Step Equations and Inequalities	2: Using Linear Equations and Inequalities 3: Solving Problems with Integers 4: Solving Problems with Decimals and Fractions
<b>M.ACC7.18</b>	Use variables to represent quantities in a real-world or mathematical problem and construct algebraic expressions, equations, and inequalities to solve problems by reasoning about the quantities.	Algebra I Textbook	2: Developing Function Foundations	3: Introduction to Functions	2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
				2: Solving Linear Equations and Inequalities	2: It's Literally About Literal Equations: Literal Equations pp. M2-91–M2-102 3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-103–M2-116 4: Don't Confound Your Compounds: Solving and Graphing Compound Inequalities pp. M2-117–M2-130
		Course 2 Textbook	3: Reasoning Algebraically	3: Multiple Representations of Equations	4: Texas Tea and Temperature: Using Multiple Representations to Solve Problems pp. M3-169–M3-180
		Algebra I MATHia Software	2: Exploring Constant Change	3: Modeling with Linear Functions	2: Modeling Linear Functions Using Multiple Representations
		Course 2 MATHia Software	3: Reasoning Algebraically	5: Problem Solving with Two-Step Equations and Inequalities	2: Using Linear Equations and Inequalities

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.18a</b>	Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.	Algebra I Textbook	2: Developing Function Foundations	2: Solving Linear Equations and Inequalities	1: Strike a Balance: Solving Linear Equations pp. M2-79–M2-90
		Course 2 Textbook	3: Reasoning Algebraically	2: Two-Step Equations and Inequalities	1: Picture Algebra: Modeling Equations by Equal Expressions pp. M3-53–M3-63
					2: Expressions That Play Together...: Solving Equations on a Double Number Line pp. M3-65–M3-75
					3: Formally Yours: Using Inverse Operations to Solve Equations pp. M3-77–M3-94
		Algebra I MATHia Software	2: Exploring Constant Change	3: Modeling with Linear Functions	1: Put It on the Plane: Representing Equations with Tables and Graphs pp. M3-125–M3-138
					2: Stretches, Stacks, and Structure: Structure of Linear Equations pp. M3-139–M3-153
		Course 2 MATHia Software	3: Reasoning Algebraically	2: Modeling Two-Step Expressions and Equations	1: Using Picture Algebra with Equations
					2: Identifying Attributes of Linear Relationships
					3: Analyzing Models of Two-Step Linear Relationships
					4: Modeling Two-Step Expressions
				3: Solving Two-Step Equations	1: Checking Solutions to Linear Equations
					2: Solving with Multiplication (No Type In)
					3: Solving with Multiplication (Type In)
					4: Solving with Division (No Type In)
5: Solving with Division (Type In)					
6: Solving Two-Step Equations					
5: Problem Solving with Two-Step Equations and Inequalities	1: Determining the Value of an Independent Variable				
	3: Solving Problems with Integers				
	4: Solving Problems with Decimals and Fractions				
6: The Coordinate Plane and Two-Step Equations	1: Graphs of Equations				
	2: Using Graphs to Solve Equations				

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.18b</b>	Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$ , where $p$ , $q$ , and $r$ are specific rational numbers. Graph the solution set of the inequality, and interpret it in the context of the problem.	Algebra I Textbook	2: Developing Function Foundations	2: Solving Linear Equations and Inequalities	3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-103–M2-116 4: Don't Confound Your Compounds: Solving and Graphing Compound Inequalities pp. M2-117–M2-130
		Course 2 Textbook	3: Reasoning Algebraically	2: Two-Step Equations and Inequalities	4: Be Greater Than: Solving Inequalities with Inverse Operations pp. M3-95–M3-116
				3: Multiple Representations of Equations	3: Deep Flight I: Building Inequalities and Equations to Solve Problems pp. M3-155–M3-168
		Algebra I MATHia Software	2: Exploring Constant Change	5: Linear Inequalities	2: Solving Two-Step Linear Inequalities
		Course 2 MATHia Software	3: Reasoning Algebraically	4: Solving Two-Step Inequalities	1: Graphing Inequalities with Rational Numbers
2: Solving One-Step Linear Inequalities					
3: Solving Two-Step Linear Inequalities					
<b>M.ACC7.19</b>	Create equations in two variables to represent relationships between quantities in context; graph equations on coordinate axes with labels and scales and use them to make predictions. Limit to contexts arising from linear functions.	Course 2 Textbook	3: Reasoning Algebraically	3: Multiple Representations of Equations	1: Put It on the Plane: Representing Equations with Tables and Graphs pp. M3-125–M3-138 2: Stretches, Stacks, and Structure: Structure of Linear Equations pp. M3-139–M3-153
<b>M.ACC7.20</b>	Represent constraints by equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. Limit to contexts arising from linear.	Algebra I Textbook	2: Developing Function Foundations	2: Solving Linear Equations and Inequalities	3: Not All Statements Are Made Equal: Modeling Linear Inequalities pp. M2-103–M2-116

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.21</b>	Solve multi-step linear equations in one variable, including rational number coefficients, and equations that require using the distributive property and combining like terms.	Course 3 Textbook	3: Modeling Linear Equations	1: Solving Linear Equations	1: Strategic Solving: Equations with Variables on Both Sides pp. M3-7–M3-16
					3: Tic-Tac-Bingo: Creating Linear Equations pp. M3-31–M3-38
		Course 3 MATHia Software	3: Modeling Linear Equations	1: Solving Linear Equations	1: Exploring Two-Step Equations
					2: Solving Multi-Step Equations
				2: Solving Linear Equations with Similar Terms	1: Solving by Combining Like Variable Terms and a Constant with Integers (No Type In)
					2: Solving by Combining Like Variable Terms and a Constant with Integers (Type In)
					3: Solving by Combining Like Variable Terms and a Constant with Decimals (No Type In)
					4: Solving by Combining Like Variable Terms and a Constant with Decimals (Type In)
				3: Linear Models and the Distributive Property	5: Solving with the Distributive Property Over Multiplication
					6: Solving with the Distributive Property Over Division
4: Linear Equations with Variables on Both Sides	1: Solving with Integers (No Type In)				
	2: Solving with Integers (Type In)				
<b>M.ACC7.21a</b>	Determine whether linear equations in one variable have one solution, no solution, or infinitely many solutions of the form $x = a$ , $a = a$ , or $a = b$ (where $a$ and $b$ are different numbers).	Course 3 Textbook	3: Modeling Linear Equations	1: Solving Linear Equations	2: MP3s and DVDs: Analyzing and Solving Linear Equations pp. M3-17–M3-30
					3: Tic-Tac-Bingo: Creating Linear Equations pp. M3-31–M3-38
		Course 3 MATHia Software	3: Modeling Linear Equations	4: Linear Equations with Variables on Both Sides	3: Solving Equations with One Solution, Infinite, and No Solutions
					4: Sorting Equations by Number of Solutions
<b>M.ACC7.21b</b>	Represent and solve real-world and mathematical problems with equations and interpret each solution in the context of the problem.	Course 3 Textbook	3: Modeling Linear Equations	1: Solving Linear Equations	3: Tic-Tac-Bingo: Creating Linear Equations pp. M3-31–M3-38

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.22</b>	Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$ , $k \cdot f(x)$ , $f(kx)$ , and $f(x + k)$ for specific values of $k$ (both positive and negative); find the value of $k$ given the graphs. Experiment with cases and explain the effects on the graph using technology, where appropriate. Limit to linear functions.	Algebra I Textbook	2: Developing Function Foundations	3: Introduction to Functions	2: Fun with Functions, Linear Ones: Making Sense of Different Representations of a Linear Function pp. M2-23–M2-40
					3: Get Your Move On: Transforming Linear Functions pp. M2-41–M2-57
<b>M.ACC7.23</b>	Construct a function to model a linear relationship between two variables.	Course 3 Textbook	2: Developing Function Foundations	2: Linear Relationships	1: U.S. Shirts: Using Tables, Graphs, and Equations pp. M2-81–M2-92
					2: At the Arcade: Linear Relationships in Tables pp. M2-93–M2-108
					3: Dining, Dancing, and Driving: Linear Relationships in Contexts pp. M2-109–M2-118
					4: Derby Day: Slope-Intercept Form of a Line pp. M2-119–M2-133
					5: What's the Point?: Point-Slope Form of a Line pp. M2-135–M2-150
					6: The Arts are Alive: Using Linear Equations pp. M2-151–M2-167
		Course 3 MATHia Software	2: Developing Function Foundations	1: Representing Proportional Relationships	1: Representing Proportional Relationships Algebraically
					2: Modeling the Constant of Proportionality
2: Linear Models	4: Graphing Linear Relationships				
	1: Multiple Representations of Linear Functions				
2: Modeling Linear Functions Using Multiple Representations					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.23</b>	Construct a function to model a linear relationship between two variables.	Course 3 MATHia Software	2: Developing Function Foundations	2: Linear Models	3: Calculating Slopes
				3: Writing Equations of a Line	2: Writing Equations Given Slope and a Point
					3: Writing Equations Given Two Points
					4: Modeling Linear Relationships Given an Initial Point
					5: Modeling Linear Relationships Given Two Points
				4: Graphs of Linear Equations in Two Variables	1: Analyzing Models of Linear Relationships
					2: Graphing Given an Integer Slope and y-Intercept
			3: Graphing Given a Decimal Slope and y-Intercept		
			4: Modeling Linear Equations in Standard Form		
			5: Graphing Linear Equations using a Given Method		
			6: Graphing Linear Equations using a Chosen Method		
			3: Modeling Linear Equations	3: Linear Models and the Distributive Property	1: Analyzing Models of Linear Relationships Involving the Distributive Property
					2: Modeling Integer Rates of Change
3: Modeling Fractional Rates of Change					
4: Modeling using the Distributive Property over Division					



Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
<b>M.ACC7.23a</b>	Interpret the rate of change (slope) and initial value of the linear function from a description of a relationship or from two points in a table or graph.	Course 3 Textbook	2: Developing Function Foundations	2: Linear Relationships	1: U.S. Shirts: Using Tables, Graphs, and Equations pp. M2-81–M2-92	
					2: At the Arcade: Linear Relationships in Tables pp. M2-93–M2-108	
					3: Dining, Dancing, and Driving: Linear Relationships in Contexts pp. M2-109–M2-118	
					4: Derby Day: Slope-Intercept Form of a Line pp. M2-119–M2-133	
		Algebra I Textbook			3: Introduction to Functions	4: Connect Four: Comparing Linear Functions in Different Forms pp. M2-59–M2-67
		Course 3 MATHia Software	2: Developing Function Foundations	2: Linear Models	1: Multiple Representations of Linear Functions	
					2: Modeling Linear Functions Using Multiple Representations	
				3: Writing Equations of a Line	3: Writing Equations Given Two Points	
					4: Modeling Linear Relationships Given an Initial Point	
					5: Modeling Linear Relationships Given Two Points	
4: Graphs of Linear Equations in Two Variables	1: Analyzing Models of Linear Relationships					
<b>M.ACC7.24</b>	Explain why the $x$ -coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$ . Limit to linear equations.	Course 3 Textbook	3: Modeling Linear Equations	2: Systems of Linear Equations	1: Crossing Paths: Point of Intersection of Linear Graphs pp. M3-47–M3-60	
<b>M.ACC7.25</b>	Find approximate solutions by graphing the functions, making tables of values, or finding successive approximations, using technology where appropriate. Note: Include cases where $f(x)$ is linear and $g(x)$ is constant or linear.	Course 3 Textbook	3: Modeling Linear Equations	2: Systems of Linear Equations	1: Crossing Paths: Point of Intersection of Linear Graphs pp. M3-47–M3-60	

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.26</b>	Examine a sample of a population to generalize information about the population.	Course 2 Textbook	4: Analyzing Populations and Probabilities	3: Drawing Inferences	1: We Want to Hear From You!: Collecting Random Samples pp. M4-133–M4-149 2: Tiles, Gumballs, and Pumpkins: Using Random Samples to Draw Inferences pp. M4-151–M4-167
		Course 2 MATHia Software	4: Analyzing Populations and Probability	3: Numerical Data Displays Comparisons	1: Using Statistics to Draw Inferences About a Population
<b>M.ACC7.26a</b>	Differentiate between a sample and a population.	Course 2 Textbook	4: Analyzing Populations and Probabilities	3: Drawing Inferences	1: We Want to Hear From You!: Collecting Random Samples pp. M4-133–M4-149
		Course 2 MATHia Software	4: Analyzing Populations and Probability	3: Numerical Data Displays Comparisons	1: Using Statistics to Draw Inferences About a Population
<b>M.ACC7.26b</b>	Compare sampling techniques to determine whether a sample is random and thus representative of a population, explaining that random sampling tends to produce representative samples and support valid inferences.	Course 2 Textbook	4: Analyzing Populations and Probabilities	3: Drawing Inferences	1: We Want to Hear From You!: Collecting Random Samples pp. M4-133–M4-149 2: Tiles, Gumballs, and Pumpkins: Using Random Samples to Draw Inferences pp. M4-151–M4-167
		Course 2 MATHia Software	4: Analyzing Populations and Probability	3: Numerical Data Displays Comparisons	1: Using Statistics to Draw Inferences About a Population
<b>M.ACC7.26c</b>	Determine whether conclusions and generalizations can be made about a population based on a sample.	Course 2 Textbook	4: Analyzing Populations and Probabilities	3: Drawing Inferences	1: We Want to Hear From You!: Collecting Random Samples pp. M4-133–M4-149
		Course 2 MATHia Software	4: Analyzing Populations and Probability	3: Numerical Data Displays Comparisons	1: Using Statistics to Draw Inferences About a Population
<b>M.ACC7.26d</b>	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest, generating multiple samples to gauge variation and making predictions or conclusions about the population.	Course 2 Textbook	4: Analyzing Populations and Probabilities	3: Drawing Inferences	2: Tiles, Gumballs, and Pumpkins: Using Random Samples to Draw Inferences pp. M4-151–M4-167
		Course 2 MATHia Software	4: Analyzing Populations and Probability	3: Numerical Data Displays Comparisons	1: Using Statistics to Draw Inferences About a Population
<b>M.ACC7.26e</b>	Informally explain situations in which statistical bias may exist.	Course 2 Textbook	4: Analyzing Populations and Probabilities	3: Drawing Inferences	1: We Want to Hear From You!: Collecting Random Samples pp. M4-133–M4-149

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)	
<b>M.ACC7.27</b>	Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability.	Course 2 Textbook	4: Analyzing Populations and Probabilities	3: Drawing Inferences	3: Spicy or Dark?: Comparing Two Populations pp. M4-169–M4-180	
		Course 2 MATHia	4: Analyzing Populations and Probability	3: Numerical Data Displays Comparisons	4: Finding Your Spot to Live: Using Random Samples from Two Populations to Draw Conclusions pp. M4-181–M4-204	
					2: Comparing Characteristics of Data Displays 3: Comparing Populations Using Data Displays	
<b>M.ACC7.28</b>	Make informal comparative inferences about two populations using measures of center and variability and/or mean absolute deviation in context.	Course 2 Textbook	4: Analyzing Populations and Probabilities	3: Drawing Inferences	4: Finding Your Spot to Live: Using Random Samples from Two Populations to Draw Conclusions pp. M4-181–M4-204	
<b>M.ACC7.29</b>	Use a number from 0 to 1 to represent the probability of a chance event occurring, explaining that larger numbers indicate greater likelihood of the event occurring, while a number near zero indicates an unlikely event.	Course 2 Textbook	4: Analyzing Populations and Probabilities	1: Introduction to Probability	1: Rolling, Rolling, Rolling...: Defining and Representing Probability pp. M4-7–M4-22	
		Course 2 MATHia Software	4: Analyzing Populations and Probability	1: Introduction to Probability	1: Determining Probabilities	
<b>M.ACC7.30</b>	Define and develop a probability model, including models that may or may not be uniform, where uniform models assign equal probability to all outcomes and non-uniform models involve events that are not equally likely.	Course 2 Textbook	4: Analyzing Populations and Probabilities	1: Introduction to Probability	2: Give the Models a Chance: Probability Models pp. M4-23–M4-32	
					3: Toss the Cup: Determining Experimental Probability of Simple Events pp. M4-33–M4-46	
					4: A Simulating Conversation: Simulating Simple Experiments pp. M4-47–M4-64	
		Course 2 MATHia Software	4: Analyzing Populations and Probability	1: Introduction to Probability	1: Evens or Odds?: Using Arrays to Organize Outcomes pp. M4-73–M4-88	
					2: Compound Probability	2: Three Girls and No Boys?: Using Tree Diagrams pp. M4-89–M4-100
					3: Pet Shop Probability: Determining Compound Probability pp. M4-101–M4-112	
1: Introduction to Probability	1: Determining Probabilities 2: Comparing Experimental and Theoretical Probabilities					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.30a</b>	Collect and use data to predict probabilities of events.	Course 2 Textbook	4: Analyzing Populations and Probabilities	1: Introduction to Probability	3: Toss the Cup: Determining Experimental Probability of Simple Events pp. M4-33–M4-46 4: A Simulating Conversation: Simulating Simple Experiments pp. M4-47–M4-64
				2: Compound Probability	1: Evens or Odds?: Using Arrays to Organize Outcomes pp. M4-73–M4-88 4: On a Hot Streak: Simulating Probability of Compound Events pp. M4-113–M4-124
		Course 2 MATHia Software	4: Analyzing Populations and Probability	1: Introduction to Probability	2: Comparing Experimental and Theoretical Probabilities
<b>M.ACC7.30b</b>	Compare probabilities from a model to observed frequencies, explaining possible sources of discrepancy.	Course 2 Textbook	4: Analyzing Populations and Probabilities	1: Introduction to Probability	2: Give the Models a Chance: Probability Models pp. M4-23–M4-32
				2: Compound Probability	2: Three Girls and No Boys?: Using Tree Diagrams pp. M4-89–M4-100
		Course 2 MATHia Software	4: Analyzing Populations and Probability	1: Introduction to Probability	2: Comparing Experimental and Theoretical Probabilities
<b>M.ACC7.31</b>	Approximate the probability of an event using data generated by a simulation (experimental probability) and compare it to the theoretical probability.	Course 2 Textbook	4: Analyzing Populations and Probabilities	1: Introduction to Probability	3: Toss the Cup: Determining Experimental Probability of Simple Events pp. M4-33–M4-46 4: A Simulating Conversation: Simulating Simple Experiments pp. M4-47–M4-64
				2: Compound Probability	1: Evens or Odds?: Using Arrays to Organize Outcomes pp. M4-73–M4-88 4: On a Hot Streak: Simulating Probability of Compound Events pp. M4-113–M4-124
		Course 2 MATHia Software	4: Analyzing Populations and Probability	1: Introduction to Probability	2: Comparing Experimental and Theoretical Probabilities

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.31a</b>	Observe the relative frequency of an event over the long run, using simulation or technology, and use those results to predict approximate relative frequency.	Course 2 Textbook	4: Analyzing Populations and Probabilities	1: Introduction to Probability	3: Toss the Cup: Determining Experimental Probability of Simple Events pp. M4-33–M4-46  4: A Simulating Conversation: Simulating Simple Experiments pp. M4-47–M4-64
				2: Compound Probability	4: On a Hot Streak: Simulating Probability of Compound Events pp. M4-113–M4-124
<b>M.ACC7.32</b>	Find probabilities of simple and compound events through experimentation or simulation and by analyzing the sample space, representing the probabilities as percents, decimals, or fractions.	Course 2 Textbook	4: Analyzing Populations and Probabilities	1: Introduction to Probability	3: Toss the Cup: Determining Experimental Probability of Simple Events pp. M4-33–M4-46  4: A Simulating Conversation: Simulating Simple Experiments pp. M4-47–M4-64
				2: Compound Probability	1: Evens or Odds?: Using Arrays to Organize Outcomes pp. M4-73–M4-88
					2: Three Girls and No Boys?: Using Tree Diagrams pp. M4-89–M4-100
					3: Pet Shop Probability: Determining Compound Probability pp. M4-101–M4-112
4: On a Hot Streak: Simulating Probability of Compound Events pp. M4-113–M4-124					
<b>M.ACC7.32a</b>	Represent sample spaces for compound events using methods such as organized lists, tables, and tree diagrams, and determine the probability of an event by finding the fraction of outcomes in the sample space for which the compound event occurred.	Course 2 Textbook	4: Analyzing Populations and Probabilities	2: Compound Probability	1: Evens or Odds?: Using Arrays to Organize Outcomes pp. M4-73–M4-88
					2: Three Girls and No Boys?: Using Tree Diagrams pp. M4-89–M4-100
		3: Pet Shop Probability: Determining Compound Probability pp. M4-101–M4-112			
		Course 2 MATHia Software	4: Analyzing Populations and Probability	2: Compound Probability	2: Calculating Compound Probabilities

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.32b</b>	Design and use a simulation to generate frequencies for compound events.	Course 2 Textbook	4: Analyzing Populations and Probabilities	2: Compound Probability	4: On a Hot Streak: Simulating Probability of Compound Events pp. M4-113–M4-124
		Course 2 MATHia Software	4: Analyzing Populations and Probability	1: Introduction to Probability 2: Compound Probability	3: Simulating Simple Events 3: Simulating Compound Events
<b>M.ACC7.32c</b>	Represent events described in everyday language in terms of outcomes in the sample space which composed the event.	Course 2 Textbook	4: Analyzing Populations and Probabilities	2: Compound Probability	1: Evens or Odds?: Using Arrays to Organize Outcomes pp. M4-73–M4-88
					2: Three Girls and No Boys?: Using Tree Diagrams pp. M4-89–M4-100
					3: Pet Shop Probability: Determining Compound Probability pp. M4-101–M4-112
					4: On a Hot Streak: Simulating Probability of Compound Events pp. M4-113–M4-124
<b>M.ACC7.33</b>	Solve problems involving scale drawings of geometric figures, including computation of actual lengths and areas from a scale drawing and reproduction of a scale drawing at a different scale.	Course 2 Textbook	1: Thinking Proportionally	4: Proportional Relationships	5: Pound for Pound, Inch for Inch: Scale and Scale Drawings pp. M1-223–M1-240
		Course 2 MATHia Software	1: Thinking Proportionally	9: Scale Drawings	1: Critical Attributes of Similar Figures 2: Using Scale Drawings 3: Using Scale Factor
<b>M.ACC7.34</b>	Construct geometric shapes (freehand, using a ruler and a protractor, and using technology), given a written description or measurement constraints with an emphasis on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.	Course 2 Textbook	5: Constructing and Measuring	1: Angles and Triangles	1: Here's Lookin' at Euclid: Geometric Constructions pp. M5-7–M5-18
					3: Consider Every Side: Constructing Triangles Given Sides pp. M5-39–M5-52
					4: Unique or Not?: Constructing Triangles Given Angles pp. M5-53–M5-66
<b>M.ACC7.35</b>	Describe the two-dimensional figures created by slicing three-dimensional figures into plane sections.	Course 2 Textbook	5: Constructing and Measuring	2: Three-Dimensional Figures	1: Slicing and Dicing: Cross-Sections of Rectangular Prisms pp. M5-75–M5-96
		Course 2 MATHia Software	5: Constructing and Measuring	2: Three-Dimensional Figures	2: Dissecting a Pyramid: Cross-Sections of Rectangular Pyramids pp. M5-97–M5-106
					1: Visualizing Cross Sections of Three-Dimensional Shapes

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.36</b>	Explain the relationships among circumference, diameter, area, and radius of a circle to demonstrate understanding of formulas for the area and circumference of a circle.	Course 2 Textbook	1: Thinking Proportionally	1: Circles and Ratio	1: Pi: The Ultimate Ratio: Exploring the Ratio of Circle Circumference to Diameter pp. M1-7–M1-18
					2: That's a Spicy Pizza: Area of Circles pp. M1-19–M1-32
		Course 2 MATHia Software	1: Thinking Proportionally	1: Circles	3: Circular Reasoning: Solving Area and Circumference Problems pp. M1-33–M1-42
					1: Investigating Circles
<b>M.ACC7.36a</b>	Informally derive the formula for area of a circle.	Course 2 Textbook	1: Thinking Proportionally	1: Circles and Ratio	2: That's a Spicy Pizza: Area of Circles pp. M1-19–M1-32
		Course 2 MATHia Software	1: Thinking Proportionally	1: Circles	1: Investigating Circles
<b>M.ACC7.36b</b>	Solve area and circumference problems in real-world and mathematical situations involving circles.	Course 2 Textbook	1: Thinking Proportionally	1: Circles and Ratio	2: That's a Spicy Pizza: Area of Circles pp. M1-19–M1-32
		Course 2 MATHia Software	1: Thinking Proportionally	1: Circles	3: Circular Reasoning: Solving Area and Circumference Problems pp. M1-33–M1-42
<b>M.ACC7.37</b>	Use facts about supplementary, complementary, vertical, and adjacent angles in multi-step problems to write and solve simple equations for an unknown angle in a figure.	Course 2 Textbook	5: Constructing and Measuring	1: Angles and Triangles	2: Special Delivery: Special Angle Relationships pp. M5-19–M5-38
		Course 2 MATHia Software	5: Constructing and Measuring	1: Angle Properties	1: Calculating Angles
<b>M.ACC7.38</b>	Analyze and apply properties of parallel lines cut by a transversal to determine missing angle measures.	Course 3 Textbook	1: Transforming Geometric Objects	3: Line and Angle Relationships	2: Crisscross Applesauce: Angle Relationships Formed by Lines Intersected by a Transversal pp. M1-181–M1-202
		Course 3 MATHia Software	1: Transforming Geometric Objects	4: Lines Cut by a Transversal	1: Classifying Angles Formed by Transversals
					2: Reasoning about Angles Formed by Transversals
3: Calculating Angle Measures Formed by Transversals					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.38a</b>	Use informal arguments to establish that the sum of the interior angles of a triangle is 180 degrees.	Course 3 Textbook	1: Transforming Geometric Objects	3: Line and Angle Relationships	1: Pulling a One-Eighty!: Triangle Sum and Exterior Angle Theorems pp. M1-167–M1-180
		Course 3 MATHia Software	1: Transforming Geometric Objects	3: Angles and Triangles	1: Introduction to Triangle Sum and Exterior Angle Theorems
<b>M.ACC7.39</b>	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 rectangular prisms.	Course 2 Textbook	1: Thinking Proportionally	4: Proportional Relationships	4: More Ups and Downs: Percent Increase and Percent Decrease pp. M1-209–M1-222
			5: Constructing and Measuring	2: Three-Dimensional Figures	3: Hey, Mister, Got Some Bird Seed?: Volume of Pyramids pp. M5-107–M5-127
		4: The Sound of Surface Area: Surface Area of Pyramids pp. M5-129–M5-142			
		5: More Than Four Sides of the Story: Volume and Surface Area of Prisms and Pyramids pp. M5-143–M5-156			
		Course 2 MATHia Software	5: Constructing and Measuring	3: Volume of Prisms and Pyramids	1: Understanding Volume Formulas for Right Prisms
					2: Using Volume of Right Prisms
3: Calculating Volume of Pyramids					
Course 3 Textbook	5: Applying Powers	2: Volume of Curved Figures	2: Cone of Silence: Volume of a Cone pp. M5-99–M5-112		
			3: Pulled in All Directions: Volume of a Sphere pp. M5-113–M5-122		
Course 3 MATHia Software	5: Applying Powers	3: Volume	1: Relating Volumes of Cylinders, Cones, and Spheres		



Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.41</b>	Use formulas to calculate the volumes of three-dimensional figures to solve real-world problems.	Course 3 Textbook	5: Applying Powers	2: Volume of Curved Figures	1: Drum Roll, Please!: Volume of a Cylinder pp. M5-85–M5-98
					2: Cone of Silence: Volume of a Cone pp. M5-99–M5-112
					3: Pulled in All Directions: Volume of a Sphere pp. M5-113–M5-122
					4: Silos, Frozen Yogurt, and Popcorn: Volume Problems with Cylinders, Cones, and Spheres pp. M5-123–M5-132
		Course 3 MATHia Software	5: Applying Powers	3: Volume	1: Relating Volumes of Cylinders, Cones, and Spheres
					2: Calculating Volume of Cylinders
					3: Using Volume of Cylinders
4: Calculating Volume of Cones					
5: Using Volume of Cones					
6: Calculating Volume of Spheres					
7: Using Volume of Spheres					
<b>M.ACC7.42</b>	Verify experimentally the properties of rigid motions (rotations, reflections, and translations): lines are taken to lines, and line segments are taken to line segments of the same length; angles are taken to angles of the same measure; and parallel lines are taken to parallel lines.	Course 3 Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	1: Patty Paper, Patty Paper: Introduction to Congruent Figures pp. M1-7–M1-16
			2: Developing Function Foundations	1: From Proportions to Linear Relationships	4: Up, Down, and All Around: Transformations of Lines pp. M2-53–M2-72
		Course 3 MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	1: Experimenting with Rigid Motions

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.42a</b>	Given a pair of two-dimensional figures, determine if a series of rigid motions maps one figure onto the other, recognizing that if such a sequence exists the figures are congruent; describe the transformation sequence that verifies a congruence relationship.	Course 3 Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	1: Patty Paper, Patty Paper: Introduction to Congruent Figures pp. M1-7–M1-16
					2: Slides, Flips, and Spins: Introduction to Rigid Motions pp. M1-17–M1-38
					3: Lateral Moves: Translations of Figures on the Coordinate Plane pp. M1-39–M1-52
					4: Mirror, Mirror: Reflections of Figures on the Coordinate Plane pp. M1-53–M1-66
					5: Half Turns and Quarter Turns: Rotations of Figures on the Coordinate Plane pp. M1-67–M1-82
					6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97
		Course 3 MATHia Software	1: Transforming Geometric Objects	1: Rigid Motions on the Coordinate Plane	2: Translating Plane Figures
					3: Reflecting Plane Figures
					4: Rotating Plane Figures
				2: Similar Figures on the Coordinate Plane	3: Performing One Transformation
4: Performing Multiple Transformations					
5: Describing Transformations Using Coordinates					

Standard ID	Description	Location	Module	Topic (Textbook)/ Unit (MATHia Software)	Lesson (Textbook) / Workspace (MATHia Software)
<b>M.ACC7.43</b>	Use coordinates to describe the effect of transformations (dilations, translations, rotations, and reflections) on two-dimensional figures.	Course 3 Textbook	1: Transforming Geometric Objects	1: Rigid Motion Transformations	3: Lateral Moves: Translations of Figures on the Coordinate Plane pp. M1-39–M1-52
					4: Mirror, Mirror: Reflections of Figures on the Coordinate Plane pp. M1-53–M1-66
					5: Half Turns and Quarter Turns: Rotations of Figures on the Coordinate Plane pp. M1-67–M1-82
					6: Every Which Way: Combining Rigid Motions pp. M1-83–M1-97
		Course 3 MATHia Software	1: Transforming Geometric Objects	2: Similarity	2: Rising, Running, Stepping, Scaling: Dilating Figures on the Coordinate Plane pp. M1-125–M1-140
					1: Rigid Motions on the Coordinate Plane
				3: Reflecting Plane Figures	
				4: Rotating Plane Figures	
				5: Describing Rigid Motions Using Coordinates	
				2: Similar Figures on the Coordinate Plane	2: Dilating Plane Figures
3: Performing One Transformation					
Course 3 MATHia Software	1: Transforming Geometric Objects	2: Similar Figures on the Coordinate Plane	4: Performing Multiple Transformations		
			2: Similarity	1: Pinch-Zoom Geometry: Dilations of Figures pp. M1-109–M1-124	
				2: Rising, Running, Stepping, Scaling: Dilating Figures on the Coordinate Plane pp. M1-125–M1-140	
				3: From Here to There: Mapping Similar Figures using Transformations pp. M1-141–M1-157	
				1: Defining Similarity	
Course 3 MATHia Software	1: Transforming Geometric Objects	2: Similar Figures on the Coordinate Plane	2: Dilating Plane Figures		
			3: Performing One Transformation		
			4: Performing Multiple Transformations		
			5: Describing Transformations Using Coordinates		