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## Grade 7 | Missouri Mathematics Learning Standards Correlation to *Eureka Math*<sup>2</sup><sup>™</sup>

When the original *Eureka Math*<sup>®</sup> curriculum was released, it quickly became the most widely used K–5 mathematics curriculum in the country. Now, the Great Minds<sup>®</sup> teacher–writers have created *Eureka Math*<sup>2</sup><sup>™</sup>, a groundbreaking new curriculum that helps teachers deliver exponentially better math instruction while still providing students with the same deep understanding of and fluency in math. *Eureka Math*<sup>2</sup> carefully sequences mathematical content to maximize vertical alignment—a principle tested and proven to be essential in students’ mastery of math—from kindergarten through high school.

While this innovative new curriculum includes all the trademark *Eureka Math* aha moments that have been delighting students and teachers for years, it also boasts these exciting new features:

### Teachability

*Eureka Math*<sup>2</sup> employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering high-quality instruction that meets the individual needs of their students. Differentiation suggestions, slide decks, digital interactives, and multiple forms of assessment are just a few of the resources built right into the teacher materials.

### Accessibility

*Eureka Math*<sup>2</sup> incorporates Universal Design for Learning principles so all learners can access the mathematics and take on challenging math concepts. Student supports are built into the instructional design and are clearly identified in the *Teach* book. Further, the curriculum carries a focus on readability. By eliminating unnecessary words and using simple, clear sentences, the *Eureka Math*<sup>2</sup> teacher–writers have created one of the most readable mathematics curricula on the market. The curriculum’s readability and accessibility help all students see themselves as mathematical thinkers and doers who are fully capable of owning their mathematics learning.

### Digital Engagement

The digital elements of *Eureka Math*<sup>2</sup> add to students’ engagement with the math. The curriculum provides teachers with digital slides for each lesson. In addition, each grade level includes wordless videos that spark students’ interest and curiosity. Students at all levels work through mathematical explorations that help lead to their own mathematical discoveries. Digital lessons and videos provide opportunities for students to wonder, explore, and make sense of mathematics, which contributes to the development of a strong, positive mathematical identity.

**Standards for Mathematical Practice**

**Aligned Components of *Eureka Math*<sup>2</sup>**

<p><b>MP.1</b> Make sense of problems and persevere in solving them.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.2</b> Reason abstractly and quantitatively.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.3</b> Construct viable arguments and critique the reasoning of others.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.4</b> Model with mathematics.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.5</b> Use appropriate tools strategically.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.6</b> Attend to precision.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.7</b> Look for and make use of structure.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>
<p><b>MP.8</b> Look for and express regularity in repeated reasoning.</p>	<p>Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.</p>

## Ratios and Proportional Relationships

### 7.RP.A Analyze proportional relationships and use them to solve problems.

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>7.RP.A.1</b></p> <p>Compute unit rates, including those that involve complex fractions, with like or different units.</p>	<p>7 M1 Lesson 1: An Experiment with Ratios and Rates</p> <p>7 M1 Lesson 2: Exploring Tables of Proportional Relationships</p> <p>7 M1 Lesson 3: Identifying Proportional Relationships in Tables</p>
<p><b>7.RP.A.2</b></p> <p>Recognize and represent proportional relationships between quantities.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>7.RP.A.2.a</b></p> <p>Determine when two quantities are in a proportional relationship.</p>	<p>7 M1 Topic A: Understanding Proportional Relationships</p> <p>7 M1 Lesson 14: Extreme Bicycles</p>
<p><b>7.RP.A.2.b</b></p> <p>Identify and/or compute the constant of proportionality (unit rate).</p>	<p>7 M1 Lesson 4: Exploring Graphs of Proportional Relationships</p> <p>7 M1 Lesson 5: Analyzing Graphs of Proportional Relationships</p> <p>7 M1 Lesson 6: Identifying Proportional Relationships in Written Descriptions</p> <p>7 M1 Lesson 8: Relating Representations of Proportional Relationships</p> <p>7 M1 Lesson 9: Comparing Proportional Relationships</p> <p>7 M1 Lesson 11: Constant Rates</p> <p>7 M1 Lesson 12: Multi-Step Ratio Problems, Part 1</p> <p>7 M1 Lesson 13: Multi-Step Ratio Problems, Part 2</p> <p>7 M1 Lesson 16: Using a Scale Factor</p> <p>7 M1 Lesson 18: Relating Areas of Scale Drawings</p>

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<p><b>7.RP.A.2.c</b></p> <p>Explain what a point <math>(x, y)</math> on the graph of a proportional relationship means in terms of the situation.</p>	<p>7 M1 Lesson 2: Exploring Tables of Proportional Relationships</p> <p>7 M1 Lesson 3: Identifying Proportional Relationships in Tables</p> <p>7 M1 Lesson 4: Exploring Graphs of Proportional Relationships</p> <p>7 M1 Lesson 5: Analyzing Graphs of Proportional Relationships</p> <p>7 M1 Lesson 8: Relating Representations of Proportional Relationships</p> <p>7 M1 Lesson 9: Comparing Proportional Relationships</p> <p>7 M1 Lesson 10: Applying Proportional Reasoning</p> <p>7 M1 Lesson 11: Constant Rates</p> <p>7 M1 Lesson 12: Multi-Step Ratio Problems, Part 1</p> <p>7 M1 Lesson 13: Multi-Step Ratio Problems, Part 2</p> <p>7 M5 Lesson 1: Proportionality and Scale Factor</p> <p>7 M5 Lesson 4: Proportion and Percent</p> <p>7 M5 Lesson 5: Common Denominators or Common Numerators</p>
<p><b>7.RP.A.2.d</b></p> <p>Recognize that the graph of any proportional relationship will pass through the origin.</p>	<p>7 M1 Lesson 4: Exploring Graphs of Proportional Relationships</p> <p>7 M1 Lesson 5: Analyzing Graphs of Proportional Relationships</p> <p>7 M1 Lesson 9: Comparing Proportional Relationships</p>
<p><b>7.RP.A.3</b></p> <p>Solve problems involving ratios, rates, percentages and proportional relationships.</p>	<p>7 M1 Lesson 7: Handstand Sprint</p> <p>7 M1 Lesson 10: Applying Proportional Reasoning</p> <p>7 M1 Lesson 11: Constant Rates</p> <p>7 M1 Lesson 12: Multi-Step Ratio Problems, Part 1</p> <p>7 M1 Lesson 13: Multi-Step Ratio Problems, Part 2</p> <p>7 M5 Lesson 2: Racing for Percents</p>

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<p><b>7.RP.A.3</b> <i>continued</i></p>	<p>7 M5 Lesson 3: Percent as a Rate per 100</p> <p>7 M5 Lesson 4: Proportion and Percent</p> <p>7 M5 Lesson 5: Common Denominators or Common Numerators</p> <p>7 M5 Topic B: Part of 100</p> <p>7 M5 Lesson 10: Percent Increase</p> <p>7 M5 Lesson 11: Percent Decrease</p> <p>7 M5 Lesson 12: More Discounts</p> <p>7 M5 Lesson 13: What Is the Best Deal?</p> <p>7 M5 Topic D: Applications of Percent</p> <p>7 M5 Lesson 20: Making Money, Day 1</p> <p>7 M5 Lesson 21: Making Money, Day 2</p> <p>7 M5 Lesson 22: Making Mixtures</p> <p>7 M5 Lesson 23: Percents of Percents</p>

**Number Sense and Operations**

**7.NS.A** Apply and extend previous understandings of operations to add, subtract, multiply and divide rational numbers.

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>7.NS.A.1</b></p> <p>Apply and extend previous understandings of numbers to add and subtract rational numbers.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>

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<p><b>7.NS.A.1.a</b></p> <p>Add and subtract rational numbers.</p>	<p>7 M2 Lesson 4: KAKOOMA®</p> <p>7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient</p> <p>7 M2 Lesson 6: Adding Rational Numbers</p> <p>7 M2 Lesson 9: Subtracting Integers, Part 2</p> <p>7 M2 Lesson 10: Subtracting Rational Numbers, Part 1</p> <p>7 M2 Lesson 11: Subtracting Rational Numbers, Part 2</p> <p>7 M2 Lesson 12: The Integer Game</p>
<p><b>7.NS.A.1.b</b></p> <p>Represent addition and subtraction on a horizontal or vertical number line.</p>	<p>7 M2 Lesson 1: Combining Opposites</p> <p>7 M2 Lesson 2: Adding Integers</p> <p>7 M2 Lesson 3: Adding Integers Efficiently</p> <p>7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient</p> <p>7 M2 Lesson 6: Adding Rational Numbers</p> <p>7 M2 Lesson 7: What Subtraction Means</p> <p>7 M2 Lesson 8: Subtracting Integers, Part 1</p> <p>7 M2 Lesson 9: Subtracting Integers, Part 2</p> <p>7 M2 Lesson 10: Subtracting Rational Numbers, Part 1</p>
<p><b>7.NS.A.1.c</b></p> <p>Describe situations and show that a number and its opposite have a sum of 0 (additive inverses).</p>	<p>7 M2 Lesson 1: Combining Opposites</p> <p>7 M2 Lesson 2: Adding Integers</p> <p>7 M2 Lesson 3: Adding Integers Efficiently</p> <p>7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient</p> <p>7 M2 Lesson 6: Adding Rational Numbers</p> <p>7 M2 Lesson 8: Subtracting Integers, Part 1</p> <p>7 M2 Lesson 12: The Integer Game</p>

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<p><b>7.NS.A.1.d</b></p> <p>Understand subtraction of rational numbers as adding the additive inverse.</p>	<p>7 M2 Lesson 7: What Subtraction Means</p> <p>7 M2 Lesson 8: Subtracting Integers, Part 1</p> <p>7 M2 Lesson 9: Subtracting Integers, Part 2</p> <p>7 M2 Lesson 10: Subtracting Rational Numbers, Part 1</p> <p>7 M2 Lesson 11: Subtracting Rational Numbers, Part 2</p>
<p><b>7.NS.A.1.e</b></p> <p>Determine the distance between two rational numbers on the number line is the absolute value of their difference.</p>	<p>7 M2 Lesson 7: What Subtraction Means</p> <p>7 M2 Lesson 8: Subtracting Integers, Part 1</p> <p>7 M2 Lesson 9: Subtracting Integers, Part 2</p> <p>7 M2 Lesson 10: Subtracting Rational Numbers, Part 1</p> <p>7 M2 Lesson 11: Subtracting Rational Numbers, Part 2</p>
<p><b>7.NS.A.1.f</b></p> <p>Interpret sums and differences of rational numbers.</p>	<p>7 M2 Lesson 1: Combining Opposites</p> <p>7 M2 Lesson 2: Adding Integers</p> <p>7 M2 Lesson 3: Adding Integers Efficiently</p> <p>7 M2 Lesson 5: Decomposing Rational Numbers to Make Addition More Efficient</p> <p>7 M2 Lesson 6: Adding Rational Numbers</p> <p>7 M2 Lesson 8: Subtracting Integers, Part 1</p>
<p><b>7.NS.A.2</b></p> <p>Apply and extend previous understandings of numbers to multiply and divide rational numbers.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>7.NS.A.2.a</b></p> <p>Multiply and divide rational numbers.</p>	<p>7 M2 Topic C: Multiplying Rational Numbers</p>

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<p><b>7.NS.A.2.b</b></p> <p>Determine that a number and its reciprocal have a product of 1 (multiplicative inverse).</p>	<p>6 M4 Lesson 20: Solving Equations with Multiplication and Division</p> <p>7 M2 Topic C: Multiplying Rational Numbers</p> <p>7 M2 Lesson 17: Understanding Negative Dividends</p> <p>7 M2 Lesson 18: Understanding Negative Divisors</p> <p>7 M2 Lesson 22: Multiplication and Division Expressions</p> <p>7 M2 Lesson 24: Order of Operations with Rational Numbers</p>
<p><b>7.NS.A.2.c</b></p> <p>Understand that every quotient of integers (with non-zero divisor) is a rational number.</p>	<p>7 M2 Lesson 18: Understanding Negative Divisors</p> <p>7 M2 Lesson 21: Comparing and Ordering Rational Numbers</p>
<p><b>7.NS.A.2.d</b></p> <p>Convert a rational number to a decimal.</p>	<p>7 M2 Lesson 19: Rational Numbers as Decimals, Part 1</p> <p>7 M2 Lesson 20: Rational Numbers as Decimals, Part 2</p> <p>7 M2 Lesson 21: Comparing and Ordering Rational Numbers</p>
<p><b>7.NS.A.2.e</b></p> <p>Understand that all rational numbers can be written as fractions or decimal numbers that terminate or repeat.</p>	<p>7 M2 Lesson 19: Rational Numbers as Decimals, Part 1</p> <p>7 M2 Lesson 20: Rational Numbers as Decimals, Part 2</p> <p>7 M2 Lesson 21: Comparing and Ordering Rational Numbers</p>
<p><b>7.NS.A.2.f</b></p> <p>Interpret products and quotients of rational numbers by describing real-world contexts.</p>	<p>7 M2 Topic C: Multiplying Rational Numbers</p>



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<p><b>7.NS.A.3</b></p> <p>Solve problems involving the four arithmetic operations with rational numbers.</p>	<p>7 M2 Lesson 23: Properties of Operations with Rational Numbers</p> <p>7 M2 Lesson 24: Order of Operations with Rational Numbers</p> <p>7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1</p> <p>7 M2 Lesson 26: Writing and Evaluating Expressions with Rational Numbers, Part 2</p>
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**Expressions, Equations and Inequalities**

**7.EE.A Use properties of operations to generate equivalent expressions.**

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<p><b>7.EE.A.1</b></p> <p>Apply properties of operations to simplify and to factor linear algebraic expressions with rational coefficients.</p>	<p>7 M3 Topic A: Equivalent Expressions</p>
<p><b>7.EE.A.2</b></p> <p>Understand how to use equivalent expressions to clarify quantities in a problem.</p>	<p>7 M3 Lesson 2: The Distributive Property and the Tabular Model</p> <p>7 M3 Lesson 4: Adding and Subtracting Expressions</p> <p>7 M3 Lesson 5: Factoring Expressions</p> <p>7 M3 Lesson 6: Comparing Expressions</p> <p>7 M3 Lesson 9: Solving Equations to Determine Unknown Angle Measures</p> <p>7 M5 Lesson 10: Percent Increase</p> <p>7 M5 Lesson 11: Percent Decrease</p> <p>7 M5 Lesson 12: More Discounts</p> <p>7 M5 Lesson 14: Scale Factor—Percent Increase and Decrease</p>

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<b>7.EE1.A.2</b> <i>continued</i>	7 M5 Lesson 15: Tips and Taxes 7 M5 Lesson 16: Markups and Discounts 7 M5 Lesson 23: Percents of Percents

### Expressions, Equations and Inequalities

**7.EE1.B** Solve problems using numerical and algebraic expressions and equations.

<b>Missouri Mathematics Learning Standards</b>	<b>Aligned Components of <i>Eureka Math</i><sup>2</sup></b>
<b>7.EE1.B.3</b> Solve multi-step problems posed with rational numbers.	<i>This standard is fully addressed by the lessons aligned to its subsections.</i>
<b>7.EE1.B.3.a</b> Convert between equivalent forms of the same number.	7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1 7 M2 Lesson 26: Writing and Evaluating Expressions with Rational Numbers, Part 2 7 M3 Lesson 9: Solving Equations to Determine Unknown Angle Measures 7 M3 Lesson 10: Problem Solving with Unknown Angle Measures 7 M3 Lesson 11: Dominoes and Dominoes 7 M3 Lesson 16: Using Equations to Solve Rate Problems 7 M3 Lesson 17: Using Equations to Solve Problems 7 M5 Lesson 2: Racing for Percents 7 M5 Lesson 7: Finding Discounts 7 M5 Lesson 14: Scale Factor—Percent Increase and Decrease 7 M5 Lesson 24: Counting Problems

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<p><b>7.EE1.B.3.b</b></p> <p>Assess the reasonableness of answers using mental computation and estimation strategies.</p>	<p>7 M2 Lesson 25: Writing and Evaluating Expressions with Rational Numbers, Part 1</p> <p>7 M2 Lesson 26: Writing and Evaluating Expressions with Rational Numbers, Part 2</p> <p>7 M3 Lesson 9: Solving Equations to Determine Unknown Angle Measures</p> <p>7 M3 Lesson 10: Problem Solving with Unknown Angle Measures</p> <p>7 M3 Lesson 11: Dominoes and Dominoes</p> <p>7 M3 Lesson 16: Using Equations to Solve Rate Problems</p> <p>7 M3 Lesson 17: Using Equations to Solve Problems</p>
<p><b>7.EE1.B.4</b></p> <p>Write and/or solve linear equations and inequalities in one variable.</p>	<p>7 M3 Lesson 11: Dominoes and Dominoes</p> <p>7 M3 Lesson 12: Solving Equations Algebraically and Arithmetically</p> <p>7 M3 Lesson 13: Solving Equations—Puzzles</p> <p>7 M3 Lesson 16: Using Equations to Solve Rate Problems</p> <p>7 M3 Lesson 17: Using Equations to Solve Problems</p> <p>7 M3 Lesson 18: Understanding Inequalities and their Solutions</p> <p>7 M3 Lesson 19: Using Equations to Solve Inequalities</p> <p>7 M3 Lesson 21: Solving Two-Step Inequalities</p> <p>7 M3 Lesson 22: Solving Problems Involving Inequalities</p> <p>7 M3 Lesson 23: Inequalities vs. Equations</p>
<p><b>7.EE1.B.4.a</b></p> <p>Write and/or solve equations of the form <math>x + p = q</math> and <math>px = q</math> in which <math>p</math> and <math>q</math> are rational numbers.</p>	<p><i>Supplemental material is necessary to address this standard.</i></p>

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<p><b>7.EE1.B.4.b</b></p> <p>Write and/or solve two-step equations of the form <math>px + q = r</math> and <math>p(x + q) = r</math>, where <math>p</math>, <math>q</math> and <math>r</math> are rational numbers, and interpret the meaning of the solution in the context of the problem.</p>	<p>7 M3 Lesson 7: Angle Relationships and Unknown Angle Measures</p> <p>7 M3 Lesson 8: Strategies to Determine Unknown Angle Measures</p> <p>7 M3 Topic C: Solving Equations</p> <p>7 M3 Lesson 18: Understanding Inequalities and their Solutions</p> <p>7 M3 Lesson 19: Using Equations to Solve Inequalities</p> <p>7 M3 Lesson 21: Solving Two-Step Inequalities</p> <p>7 M3 Lesson 22: Solving Problems Involving Inequalities</p> <p>7 M3 Lesson 23: Inequalities vs. Equations</p>
<p><b>7.EE1.B.4.c</b></p> <p>Write, solve and/or graph inequalities of the form <math>px + q &gt; r</math> or <math>px + q &lt; r</math>, where <math>p</math>, <math>q</math> and <math>r</math> are rational numbers.</p>	<p>7 M3 Topic D: Inequalities</p>

## Geometry and Measurement

**7.GM.A Draw and describe geometrical figures and describe the relationships between them.**

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>7.GM.A.1</b></p> <p>Solve problems involving scale drawings of real objects and geometric figures, including computing actual lengths and areas from a scale drawing and reproducing the drawing at a different scale.</p>	<p>7 M1 Lesson 15: Scale Drawings</p> <p>7 M1 Lesson 16: Using a Scale Factor</p> <p>7 M1 Lesson 17: Finding Actual Distances from a Scale Drawing</p> <p>7 M1 Lesson 18: Relating Areas of Scale Drawings</p> <p>7 M1 Lesson 19: Scale and Scale Factor</p> <p>7 M1 Lesson 20: Creating Multiple Scale Drawings</p> <p>7 M5 Lesson 1: Proportionality and Scale Factor</p> <p>7 M5 Lesson 14: Scale Factor—Percent Increase and Decrease</p>
<p><b>7.GM.A.2</b></p> <p>Use a variety of tools to construct geometric shapes.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>7.GM.A.2.a</b></p> <p>Determine if provided constraints will create a unique triangle through construction.</p>	<p>7 M4 Topic A: Constructing Geometric Figures</p> <p>7 M4 Topic B: Constructing Triangles</p> <p>7 M4 Lesson 9: Constructing a Circle</p>
<p><b>7.GM.A.2.b</b></p> <p>Construct special quadrilaterals given specific parameters.</p>	<p>7 M4 Topic A: Constructing Geometric Figures</p> <p>7 M4 Topic B: Constructing Triangles</p> <p>7 M4 Lesson 9: Constructing a Circle</p>

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<p><b>7.GM.A.3</b></p> <p>Describe two-dimensional cross sections of pyramids, prisms, cones and cylinders.</p>	<p>7 M4 Lesson 22: Understanding Planes and Cross Sections</p> <p>7 M4 Lesson 23: Cross Section Scavenger Hunt</p> <p><i>Supplemental material is necessary to address cross sections of cones and cylinders.</i></p>
<p><b>7.GM.A.4</b></p> <p>Understand the concepts of circles.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>7.GM.A.4.a</b></p> <p>Analyze the relationships among the circumference, the radius, the diameter, the area and Pi in a circle.</p>	<p>7 M4 Lesson 10: The Outside of a Circle</p> <p>7 M4 Lesson 11: The Inside of a Circle</p> <p>7 M4 Lesson 12: Exploring the Area and Circumference of a Circle</p> <p>7 M4 Lesson 13: Finding Areas of Circular Regions</p> <p>7 M4 Lesson 14: Composite Figures with Circular Regions</p> <p>7 M4 Lesson 15: Watering a Lawn</p>
<p><b>7.GM.A.4.b</b></p> <p>Know and apply the formulas for circumference and area of circles to solve problems.</p>	<p>7 M4 Lesson 10: The Outside of a Circle</p> <p>7 M4 Lesson 11: The Inside of a Circle</p> <p>7 M4 Lesson 12: Exploring the Area and Circumference of a Circle</p> <p>7 M4 Lesson 13: Finding Areas of Circular Regions</p> <p>7 M4 Lesson 14: Composite Figures with Circular Regions</p> <p>7 M4 Lesson 15: Watering a Lawn</p>

## Geometry and Measurement

### 7.GM.B Apply and extend previous understanding of angle measure, area and volume.

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<p><b>7.GM.B.5</b></p> <p>Use angle properties to write and solve equations for an unknown angle.</p>	<p>7 M3 Lesson 7: Angle Relationships and Unknown Angle Measures</p> <p>7 M3 Lesson 8: Strategies to Determine Unknown Angle Measures</p> <p>7 M3 Lesson 10: Problem Solving with Unknown Angle Measures</p>
<p><b>7.GM.B.6</b></p> <p>Understand the relationship between area, surface area and volume.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>7.GM.B.6.a</b></p> <p>Find the area of triangles, quadrilaterals and other polygons composed of triangles and rectangles.</p>	<p>7 M4 Lesson 14: Composite Figures with Circular Regions</p> <p>7 M4 Lesson 16: Solving Area Problems by Composition and Decomposition</p> <p>7 M4 Lesson 17: Surface Area of Right Rectangular and Right Triangular Prisms</p> <p>7 M4 Lesson 18: Surface Area of Right Prisms</p> <p>7 M4 Lesson 20: Surface Areas of Right Pyramids</p> <p>7 M4 Lesson 21: Surface Area of Other Solids</p> <p>7 M4 Lesson 24: Volume of Prisms</p> <p>7 M4 Lesson 25: Volume of Composite Solids</p> <p>7 M4 Lesson 26: Designing a Fish Tank</p>

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<p><b>7.GM.B.6.b</b></p> <p>Find the volume and surface area of prisms, pyramids and cylinders.</p>	<p>7 M4 Lesson 14: Composite Figures with Circular Regions</p> <p>7 M4 Lesson 16: Solving Area Problems by Composition and Decomposition</p> <p>7 M4 Lesson 17: Surface Area of Right Rectangular and Right Triangular Prisms</p> <p>7 M4 Lesson 18: Surface Area of Right Prisms</p> <p>7 M4 Lesson 19: Surface Area of Cylinders</p> <p>7 M4 Lesson 20: Surface Areas of Right Pyramids</p> <p>7 M4 Lesson 21: Surface Area of Other Solids</p> <p>7 M4 Lesson 24: Volume of Prisms</p> <p>7 M4 Lesson 25: Volume of Composite Solids</p> <p>7 M4 Lesson 26: Designing a Fish Tank</p> <p>8 M6 Lesson 21: Volumes of Prisms and Pyramids</p> <p>8 M6 Lesson 22: Volumes of Cylinders</p>

**Data Analysis, Statistics and Probability**

**7.DSP.A Use random sampling to draw inferences about a population.**

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>7.DSP.A.1</b></p> <p>Understand that statistics can be used to gain information about a population by examining a sample of the population.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>



**Missouri Mathematics Learning Standards**

**Aligned Components of *Eureka Math*<sup>2</sup>**

<p><b>7.DSP.A.1.a</b></p> <p>Understand that a sample is a subset of a population.</p>	<p>7 M6 Lesson 11: Populations and Samples</p> <p>7 M6 Lesson 12: Selecting a Sample</p> <p>7 M6 Lesson 13: Variability Between Samples</p> <p>7 M6 Lesson 14: Sampling Variability When Estimating a Population Mean</p>
<p><b>7.DSP.A.1.b</b></p> <p>Understand that generalizations from a sample are valid only if the sample is representative of the population.</p>	<p>7 M6 Lesson 11: Populations and Samples</p> <p>7 M6 Lesson 12: Selecting a Sample</p> <p>7 M6 Lesson 13: Variability Between Samples</p> <p>7 M6 Lesson 14: Sampling Variability When Estimating a Population Mean</p>
<p><b>7.DSP.A.1.c</b></p> <p>Understand that random sampling is used to produce representative samples and support valid inferences.</p>	<p>7 M6 Lesson 11: Populations and Samples</p> <p>7 M6 Lesson 12: Selecting a Sample</p> <p>7 M6 Lesson 13: Variability Between Samples</p> <p>7 M6 Lesson 14: Sampling Variability When Estimating a Population Mean</p>
<p><b>7.DSP.A.2</b></p> <p>Use data from multiple samples to draw inferences about a population and investigate variability in estimates of the characteristic of interest.</p>	<p>7 M6 Lesson 13: Variability Between Samples</p> <p>7 M6 Lesson 14: Sampling Variability When Estimating a Population Mean</p> <p>7 M6 Lesson 15: Sampling Variability and the Effect of Sample Size</p> <p>7 M6 Lesson 16: Sampling Variability When Estimating a Population Proportion</p>

## Data Analysis, Statistics and Probability

### 7.DSP.B Draw informal comparative inferences about two populations.

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<p><b>7.DSP.B.3</b></p> <p>Analyze different data distributions using statistical measures.</p>	7 M6 Topic D: Comparing Populations
<p><b>7.DSP.B.4</b></p> <p>Compare the numerical measures of center, measures of frequency and measures of variability from two random samples to draw inferences about the population.</p>	7 M6 Topic D: Comparing Populations

## Data Analysis, Statistics and Probability

### 7.DSP.C Develop, use and evaluate probability models.

Missouri Mathematics Learning Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>7.DSP.C.5</b></p> <p>Investigate the probability of chance events.</p>	<i>This standard is fully addressed by the lesson aligned to its subsections.</i>
<p><b>7.DSP.C.5.a</b></p> <p>Determine probabilities of simple events.</p>	7 M6 Lesson 1: What is Probability?

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<p><b>7.DSP.C.5.b</b></p> <p>Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring.</p>	<p>7 M6 Lesson 1: What is Probability?</p>
<p><b>7.DSP.C.6</b></p> <p>Investigate the relationship between theoretical and experimental probabilities for simple events.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>7.DSP.C.6.a</b></p> <p>Predict outcomes using theoretical probability.</p>	<p>7 M6 Lesson 2: Empirical Probability</p> <p>7 M6 Lesson 3: Outcomes of Chance Experiments</p> <p>7 M6 Lesson 6: Outcomes That Are Not Equally Likely</p> <p>7 M6 Lesson 8: Picking Blue</p>
<p><b>7.DSP.C.6.b</b></p> <p>Perform experiments that model theoretical probability.</p>	<p>7 M6 Lesson 2: Empirical Probability</p> <p>7 M6 Lesson 3: Outcomes of Chance Experiments</p> <p>7 M6 Lesson 6: Outcomes That Are Not Equally Likely</p> <p>7 M6 Lesson 8: Picking Blue</p>
<p><b>7.DSP.C.6.c</b></p> <p>Compare theoretical and experimental probabilities.</p>	<p>7 M6 Lesson 2: Empirical Probability</p> <p>7 M6 Lesson 3: Outcomes of Chance Experiments</p> <p>7 M6 Lesson 6: Outcomes That Are Not Equally Likely</p> <p>7 M6 Lesson 8: Picking Blue</p>

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<p><b>7.DSP.C.7</b></p> <p>Explain possible discrepancies between a developed probability model and observed frequencies.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>7.DSP.C.7.a</b></p> <p>Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events.</p>	<p>7 M6 Lesson 4: Theoretical Probability</p> <p>7 M6 Lesson 7: The Law of Large Numbers</p>
<p><b>7.DSP.C.7.b</b></p> <p>Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process.</p>	<p>7 M6 Lesson 7: The Law of Large Numbers</p> <p>7 M6 Lesson 8: Picking Blue</p>
<p><b>7.DSP.C.8</b></p> <p>Find probabilities of compound events using organized lists, tables, tree diagrams and simulations.</p>	<p><i>This standard is fully addressed by the lessons aligned to its subsections.</i></p>
<p><b>7.DSP.C.8.a</b></p> <p>Represent the sample space of a compound event.</p>	<p>7 M6 Lesson 5: Multistage Experiments</p>
<p><b>7.DSP.C.8.b</b></p> <p>Design and use a simulation to generate frequencies for compound events.</p>	<p>7 M6 Lesson 9: Probability Simulations</p> <p>7 M6 Lesson 10: Simulations with Random Number Tables</p>