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## Grade 5 | Georgia's K–12 Mathematics Standards (2021) Correlation to *Eureka Math*<sup>2</sup>® (2027)

*Eureka Math*<sup>2</sup> is a research-proven math curriculum that empowers teachers to center instructional techniques on student success. Teachers can foster more “aha!” learning moments by providing the support needed for all learners to build a more confident math mindset.

This *Eureka Math*<sup>2</sup> edition builds on a strong foundation of effective instruction. It provides teachers with guidance on delivering rigorous instruction that honors student choice and encourages confident problem-solving.

*Eureka Math*<sup>2</sup> carefully sequences mathematical content to maximize vertical alignment from kindergarten through high school. This kind of sequencing has proven to be essential in students' mastery of math.

### 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 into the teacher materials.

### Accessibility

*Eureka Math*<sup>2</sup> incorporates Universal Design for Learning (UDL) principles so all learners can access the mathematics and take on challenging math concepts. UDL, Differentiation, and Multilingual Learner supports are built into the instructional design and are clearly identified in the *Teach* book.

The curriculum also carries a focus on readability. By eliminating unnecessary words and using 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.

### Math Confidence

*Eureka Math*<sup>2</sup> fosters a classroom culture of learning by encouraging student-led discourse and cognitive engagement that results in confident learners. By leveraging consistent models, routines, and progressions, teachers can remove barriers and allow all students an avenue to success. Within the digital platform, each grade includes wordless videos and digital interactives that spark students' curiosity and help them make conceptual connections. Using the *Learn* books, students wonder, explore, and make sense of mathematics, which helps them develop a strong, positive mathematical identity.

Standards for Mathematical Practice	Aligned Components of <i>Eureka Math</i> <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>

## Numerical Reasoning

### 5.NR.1 Use place value understanding to solve real-life, mathematical problems.

#### Georgia’s K–12 Mathematics Standards

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

<p><b>5.NR.1.1</b></p> <p>Explain that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and <math>\frac{1}{10}</math> of what it represents in the place to its left.</p>	<p>5 M1 Lesson 1: Relate adjacent place value units by using place value understanding.</p> <p>5 M1 Lesson 2: Multiply and divide by 10, 100, and 1,000 and identify patterns in the products and quotients.</p> <p>5 M4 Lesson 1: Model and relate decimal place value units to thousandths.</p> <p>5 M4 Lesson 2: Represent thousandths as a place value unit.</p> <p>5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.</p> <p>5 M4 Lesson 4: Relate the values of digits in a decimal number by using place value understanding.</p> <p>5 M4 Lesson 5: Multiply and divide decimal numbers by powers of 10.</p> <p>5 M4 Lesson 6: Compare decimal numbers to the thousandths place.</p> <p>5 M4 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth.</p> <p>5 M4 Lesson 8: Round decimal numbers to any place value unit.</p>
<p><b>5.NR.1.2</b></p> <p>Explain patterns in the placement of digits when multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10, up to <math>10^3</math>.</p>	<p>5 M1 Lesson 1: Relate adjacent place value units by using place value understanding.</p> <p>5 M1 Lesson 2: Multiply and divide by 10, 100, and 1,000 and identify patterns in the products and quotients.</p> <p>5 M1 Lesson 3: Use exponents to multiply and divide by powers of 10.</p> <p>5 M1 Lesson 4: Estimate products and quotients by using powers of 10 and their multiples.</p> <p>5 M1 Lesson 5: Convert measurements and describe relationships between metric units.</p> <p>5 M1 Lesson 6: Solve multi-step word problems by using metric measurement conversion.</p> <p>5 M4 Lesson 5: Multiply and divide decimal numbers by powers of 10.</p>

## Numerical Reasoning

### 5.NR.2 Multiply and divide multi-digit whole numbers to solve relevant, mathematical problems.

Georgia’s K–12 Mathematics Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>5.NR.2.1</b></p> <p>Fluently multiply multi-digit (up to 3-digit by 2-digit) whole numbers to solve authentic problems.</p>	<p>5 M1 Lesson 7: Multiply by using familiar methods.</p> <p>5 M1 Lesson 8: Multiply two- and three-digit numbers by two-digit numbers by using the distributive property.</p> <p>5 M1 Lesson 9: Multiply two- and three-digit numbers by two-digit numbers by using the standard algorithm.</p> <p>5 M1 Lesson 10: Multiply three- and four-digit numbers by three-digit numbers by using the standard algorithm.</p> <p>5 M1 Lesson 11: Multiply two multi-digit numbers by using the standard algorithm.</p>
<p><b>5.NR.2.2</b></p> <p>Fluently divide multi-digit whole numbers (up to 4-digit dividends and 2-digit divisors no greater than 25) to solve practical problems.</p>	<p>5 M1 Lesson 12: Divide two- and three-digit numbers by multiples of 10.</p> <p>5 M1 Lesson 13: Divide two-digit numbers by two-digit numbers in problems that result in one-digit quotients.</p> <p>5 M1 Lesson 14: Divide three-digit numbers by two-digit numbers in problems that result in one-digit quotients.</p> <p>5 M1 Lesson 15: Divide three-digit numbers by two-digit numbers in problems that result in two-digit quotients.</p> <p>5 M1 Lesson 16: Divide four-digit numbers by two-digit numbers.</p>

## Numerical Reasoning

**5.NR.3 Describe fractions and perform operations with fractions to solve relevant, mathematical problems using part-whole strategies and visual models.**

### Georgia’s K–12 Mathematics Standards

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

<p><b>5.NR.3.1</b></p> <p>Explain the meaning of a fraction as division of the numerator by the denominator (<math>\frac{a}{b} = a \div b</math>). Solve problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.</p>	<p>5 M2 Lesson 1: Interpret a fraction as division.</p> <p>5 M2 Lesson 2: Interpret a fraction as division by writing remainders as fractions.</p> <p>5 M2 Lesson 3: Represent fractions as division by using models.</p> <p>5 M2 Lesson 4: Solve word problems involving division and fractions.</p>
<p><b>5.NR.3.2</b></p> <p>Compare and order up to three fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies.</p>	<p>4 M4 Lesson 13: Compare fractions by using the benchmarks, 0, <math>\frac{1}{2}</math>, and 1.</p> <p>4 M4 Lesson 14: Compare fractions with related denominators.</p> <p>4 M4 Lesson 15: Compare fractions with related numerators.</p> <p>4 M4 Lesson 16: Generate a common numerator or denominator to compare fractions.</p> <p>4 M4 Lesson 17: Apply fraction comparison strategies to compare fractions greater than 1.</p>

**Georgia's K–12  
Mathematics Standards**

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

<p><b>5.NR.3.3</b></p> <p>Model and solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators.</p>	<p>5 M2 Lesson 1: Interpret a fraction as division.</p> <p>5 M2 Lesson 2: Interpret a fraction as division by writing remainders as fractions.</p> <p>5 M2 Lesson 3: Represent fractions as division by using models.</p> <p>5 M2 Lesson 4: Solve word problems involving division and fractions.</p> <p>5 M2 Lesson 5: Add and subtract fractions with related units by using pictorial models.</p> <p>5 M2 Lesson 6: Add and subtract fractions with related units by using area models to rename fractions.</p> <p>5 M2 Lesson 7: Add and subtract fractions with related units by finding equivalent fractions numerically.</p> <p>5 M2 Lesson 8: Add and subtract fractions with unrelated units by finding equivalent fractions pictorially.</p> <p>5 M2 Lesson 9: Add and subtract fractions with unrelated units by finding equivalent fractions numerically.</p> <p>5 M2 Lesson 10: Add whole numbers and mixed numbers and add mixed numbers with related units.</p> <p>5 M2 Lesson 11: Add mixed numbers with unrelated units.</p> <p>5 M2 Lesson 12: Subtract whole numbers from mixed numbers and mixed numbers from whole numbers.</p> <p>5 M2 Lesson 13: Subtract mixed numbers from mixed numbers with related units.</p> <p>5 M2 Lesson 14: Subtract mixed numbers from mixed numbers with unrelated units.</p> <p>5 M2 Lesson 15: Represent data on a line plot.</p> <p>5 M2 Lesson 16: Solve problems by using data from a line plot.</p> <p>5 M2 Lesson 17: Solve problems by equally redistributing a total amount.</p>
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**Georgia's K–12  
Mathematics Standards**

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

<p><b>5.NR.3.4</b></p> <p>Model and solve problems involving multiplication of a fraction and a whole number.</p>	<p>5 M3 Lesson 1: Find fractions of a set with arrays.</p> <p>5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines.</p> <p>5 M3 Lesson 3: Multiply a whole number by a fraction less than 1.</p> <p>5 M3 Lesson 4: Multiply a whole number by a fraction.</p> <p>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</p> <p>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</p> <p>5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially.</p> <p>5 M3 Lesson 8: Multiply fractions less than 1 pictorially.</p> <p>5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems.</p> <p>5 M3 Lesson 10: Multiply fractions greater than 1 by fractions.</p> <p>5 M3 Lesson 11: Multiply fractions.</p> <p>5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups.</p> <p>5 M3 Lesson 13: Divide a nonzero whole number by a unit fraction to find the size of the group.</p> <p>5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number.</p> <p>5 M3 Lesson 15: Divide by whole numbers and unit fractions.</p> <p>5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers.</p> <p>5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division.</p> <p>5 M3 Lesson 18: Compare and evaluate expressions with parentheses.</p> <p>5 M3 Lesson 19: Create and solve one-step word problems involving fractions.</p> <p>5 M3 Lesson 20: Solve multi-step word problems involving fractions and write equations with parentheses.</p> <p>5 M3 Lesson 21: Solve multi-step word problems involving fractions.</p> <p>5 M3 Lesson 22: Evaluate expressions involving nested grouping symbols.</p>
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**Georgia's K–12  
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**Aligned Components of *Eureka Math*<sup>2</sup>**

<p><b>5.NR.3.5</b></p> <p>Explain why multiplying a whole number by a fraction greater than one results in a product greater than the whole number, and why multiplying a whole number by a fraction less than one results in a product less than the whole number and multiplying a whole number by a fraction equal to one results in a product equal to the whole number.</p>	<p>5 M3 Lesson 1: Find fractions of a set with arrays.</p> <p>5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines.</p> <p>5 M3 Lesson 3: Multiply a whole number by a fraction less than 1.</p> <p>5 M3 Lesson 4: Multiply a whole number by a fraction.</p> <p>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</p> <p>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</p> <p>5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially.</p> <p>5 M3 Lesson 8: Multiply fractions less than 1 pictorially.</p> <p>5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems.</p> <p>5 M3 Lesson 10: Multiply fractions greater than 1 by fractions.</p> <p>5 M3 Lesson 11: Multiply fractions.</p> <p>5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups.</p> <p>5 M3 Lesson 13: Divide a nonzero whole number by a unit fraction to find the size of the group.</p> <p>5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number.</p> <p>5 M3 Lesson 15: Divide by whole numbers and unit fractions.</p> <p>5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers.</p> <p>5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division.</p> <p>5 M3 Lesson 18: Compare and evaluate expressions with parentheses.</p> <p>5 M3 Lesson 19: Create and solve one-step word problems involving fractions.</p> <p>5 M3 Lesson 20: Solve multi-step word problems involving fractions and write equations with parentheses.</p> <p>5 M3 Lesson 21: Solve multi-step word problems involving fractions.</p>
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**Georgia's K–12  
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<p><b>5.NR.3.5 <i>continued</i></b></p>	<p>5 M3 Lesson 22: Evaluate expressions involving nested grouping symbols.</p> <p>5 M5 Lesson 10: Find the area of a rectangle with fraction side lengths by relating the rectangle to a unit square.</p> <p>5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths.</p> <p>5 M5 Lesson 15: Solve multi-step word problems involving multiplication of mixed numbers.</p>
<p><b>5.NR.3.6</b></p> <p>Model and solve problems involving division of a unit fraction by a whole number and a whole number by a unit fraction.</p>	<p>5 M3 Lesson 1: Find fractions of a set with arrays.</p> <p>5 M3 Lesson 2: Interpret fractions as division to find fractions of a set with tape diagrams and number lines.</p> <p>5 M3 Lesson 3: Multiply a whole number by a fraction less than 1.</p> <p>5 M3 Lesson 4: Multiply a whole number by a fraction.</p> <p>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</p> <p>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</p> <p>5 M3 Lesson 7: Multiply fractions less than 1 by unit fractions pictorially.</p> <p>5 M3 Lesson 8: Multiply fractions less than 1 pictorially.</p> <p>5 M3 Lesson 9: Multiply fractions by unit fractions by making simpler problems.</p> <p>5 M3 Lesson 10: Multiply fractions greater than 1 by fractions.</p> <p>5 M3 Lesson 11: Multiply fractions.</p> <p>5 M3 Lesson 12: Divide a nonzero whole number by a unit fraction to find the number of groups.</p> <p>5 M3 Lesson 13: Divide a nonzero whole number by a unit fraction to find the size of the group.</p> <p>5 M3 Lesson 14: Divide a unit fraction by a nonzero whole number.</p> <p>5 M3 Lesson 15: Divide by whole numbers and unit fractions.</p> <p>5 M3 Lesson 16: Reason about the size of quotients of whole numbers and unit fractions and quotients of unit fractions and whole numbers.</p>

**Georgia's K–12  
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**Aligned Components of *Eureka Math*<sup>2</sup>**

<p><b>5.NR.3.6 <i>continued</i></b></p>	<p>5 M3 Lesson 17: Solve word problems involving fractions with multiplication and division.</p> <p>5 M3 Lesson 18: Compare and evaluate expressions with parentheses.</p> <p>5 M3 Lesson 19: Create and solve one-step word problems involving fractions.</p> <p>5 M3 Lesson 20: Solve multi-step word problems involving fractions and write equations with parentheses.</p> <p>5 M3 Lesson 21: Solve multi-step word problems involving fractions.</p> <p>5 M3 Lesson 22: Evaluate expressions involving nested grouping symbols.</p>
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**Numerical Reasoning**

**5.NR.4 Read, write, and compare decimal numbers to the thousandths place, and round and perform operations with decimal numbers to the hundredths place to solve relevant, mathematical problems.**

**Georgia's K–12  
Mathematics Standards**

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

<p><b>5.NR.4.1</b></p> <p>Read and write decimal numbers to the thousandths place using base-ten numerals written in standard form and expanded form.</p>	<p>5 M4 Lesson 1: Model and relate decimal place value units to thousandths.</p> <p>5 M4 Lesson 2: Represent thousandths as a place value unit.</p> <p>5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.</p>
<p><b>5.NR.4.2</b></p> <p>Represent, compare, and order decimal numbers to the thousandths place based on the meanings of the digits in each place, using <math>&gt;</math>, <math>=</math>, and <math>&lt;</math> symbols to record the results of comparisons.</p>	<p>5 M4 Lesson 6: Compare decimal numbers to the thousandths place.</p>

**Georgia’s K–12  
Mathematics Standards**

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

<p><b>5.NR.4.3</b></p> <p>Use place value understanding to round decimal numbers to the hundredths place.</p>	<p>5 M4 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth.</p> <p>5 M4 Lesson 8: Round decimal numbers to any place value unit.</p>
<p><b>5.NR.4.4</b></p> <p>Solve problems involving addition and subtraction of decimal numbers to the hundredths place using a variety of strategies.</p>	<p>5 M4 Lesson 1: Model and relate decimal place value units to thousandths.</p> <p>5 M4 Lesson 2: Represent thousandths as a place value unit.</p> <p>5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.</p> <p>5 M4 Lesson 4: Relate the values of digits in a decimal number by using place value understanding.</p> <p>5 M4 Lesson 5: Multiply and divide decimal numbers by powers of 10.</p> <p>5 M4 Lesson 6: Compare decimal numbers to the thousandths place.</p> <p>5 M4 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth.</p> <p>5 M4 Lesson 8: Round decimal numbers to any place value unit.</p> <p>5 M4 Lesson 9: Add decimal numbers by using different methods.</p> <p>5 M4 Lesson 10: Add decimal numbers by using place value understanding.</p> <p>5 M4 Lesson 11: Subtract decimal numbers by using different methods.</p> <p>5 M4 Lesson 12: Subtract decimal numbers by using place value understanding.</p> <p>5 M4 Lesson 13: Solve word problems involving addition and subtraction of decimal numbers and fractions.</p> <p>5 M4 Lesson 14: Multiply decimal numbers to hundredths by one-digit whole numbers by using different models.</p> <p>5 M4 Lesson 15: Multiply decimal numbers to hundredths by one-digit whole numbers and multiples of 10, 100, or 1,000 by using different written methods.</p> <p>5 M4 Lesson 16: Multiply decimal numbers to hundredths by two-digit whole numbers by using area models and vertical form.</p>

**Georgia's K–12  
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<b>5.NR.4.4 <i>continued</i></b>	
	5 M4 Lesson 17: Multiply decimal numbers to hundredths by two-digit whole numbers by using different methods.
	5 M4 Lesson 18: Relate decimal number multiplication to fraction multiplication.
	5 M4 Lesson 19: Multiply a decimal number by a decimal number.
	5 M4 Lesson 20: Divide decimal numbers to hundredths by one-digit whole numbers and multiples of 10, 100, or 1,000 by using unit form and place value understanding.
	5 M4 Lesson 21: Divide decimal numbers to hundredths by one-digit whole numbers and multiples of 10, 100, or 1,000 by using place value understanding and vertical form.
	5 M4 Lesson 22: Divide decimal numbers to hundredths by two-digit whole numbers.
	5 M4 Lesson 23: Relate division by 0.1 and 0.01 to division by a unit fraction.
	5 M4 Lesson 24: Divide decimal numbers by decimal numbers, resulting in whole-number quotients.
	5 M4 Lesson 25: Divide decimal numbers by decimal numbers, resulting in decimal-number quotients.
	5 M4 Lesson 26: Solve a real-world problem involving metric measurements.
	5 M4 Lesson 27: Convert metric measurements involving decimals.
	5 M4 Lesson 28: Convert customary measurements involving decimals.
	5 M4 Lesson 29: Interpret, evaluate, and compare numerical expressions involving decimals.
	5 M4 Lesson 30: Create and solve real-world problems for given numerical expressions involving decimals.

## Numerical Reasoning

### 5.NR.5 Write, interpret, and evaluate numerical expressions within authentic problems.

Georgia’s K–12 Mathematics Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>5.NR.5.1</b></p> <p>Write, interpret, and evaluate simple numerical expressions involving whole numbers with or without grouping symbols to represent actual situations.</p>	<p>5 M1 Lesson 1: Relate adjacent place value units by using place value understanding.</p> <p>5 M1 Lesson 2: Multiply and divide by 10, 100, and 1,000 and identify patterns in the products and quotients.</p> <p>5 M4 Lesson 1: Model and relate decimal place value units to thousandths.</p> <p>5 M4 Lesson 2: Represent thousandths as a place value unit.</p> <p>5 M4 Lesson 3: Represent decimal numbers to the thousandths place in different forms.</p> <p>5 M4 Lesson 4: Relate the values of digits in a decimal number by using place value understanding.</p> <p>5 M4 Lesson 5: Multiply and divide decimal numbers by powers of 10.</p> <p>5 M4 Lesson 6: Compare decimal numbers to the thousandths place.</p> <p>5 M4 Lesson 7: Round decimal numbers to the nearest one, tenth, or hundredth.</p> <p>5 M4 Lesson 8: Round decimal numbers to any place value unit.</p>

## Patterning and Algebraic Reasoning

### 5.PAR.6 Solve relevant problems by creating and analyzing numerical patterns using the given rule(s).

Georgia's K–12 Mathematics Standards	Aligned Components of <i>Eureka Math</i> <sup>2</sup>
<p><b>5.PAR.6.1</b></p> <p>Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms by completing a table.</p>	<p>5 M6 Lesson 5: Identify properties of horizontal and vertical lines.</p> <p>5 M6 Lesson 6: Use properties of horizontal and vertical lines to solve problems.</p> <p>5 M6 Lesson 7: Generate number patterns to form ordered pairs.</p> <p>5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 10: Identify mixed-operation relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines.</p> <p>5 M6 Lesson 20: Reason about patterns in real-world situations.</p>

## Georgia's K–12 Mathematics Standards

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

<p><b>5.PAR.6.2</b></p> <p>Represent problems by plotting ordered pairs and explain coordinate values of points in the first quadrant of the coordinate plane.</p>	<p>5 M6 Lesson 1: Construct a coordinate system on a line.</p> <p>5 M6 Lesson 2: Construct a coordinate system in a plane.</p> <p>5 M6 Lesson 3: Identify and plot points by using ordered points.</p> <p>5 M6 Lesson 4: Describe the distance and direction between points in the coordinate plane.</p> <p>5 M6 Lesson 5: Identify properties of horizontal and vertical lines.</p> <p>5 M6 Lesson 6: Use properties of horizontal and vertical lines to solve problems.</p> <p>5 M6 Lesson 7: Generate number patterns to form ordered pairs.</p> <p>5 M6 Lesson 8: Identify addition and subtraction relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 9: Identify multiplication and division relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 10: Identify mixed-operation relationships between corresponding terms in number patterns.</p> <p>5 M6 Lesson 11: Draw lines in the coordinate plane and identify points on the lines.</p> <p>5 M6 Lesson 12: Graph and classify quadrilaterals in the coordinate plane.</p> <p>5 M6 Lesson 13: Draw symmetric figures in the coordinate plane.</p> <p>5 M6 Lesson 14: Solve mathematical problems with rectangles in the coordinate plane.</p> <p>5 M6 Lesson 15: Use the coordinate plane to reason about perimeters and areas of rectangles.</p> <p>5 M6 Lesson 16: Interpret graphs that represent real-world situations.</p> <p>5 M6 Lesson 17: Plot data in the coordinate plane and analyze relationships.</p> <p>5 M6 Lesson 18: Interpret line graphs.</p> <p>5 M6 Lesson 19: Reason about visual patterns by using tables and graphs.</p> <p>5 M6 Lesson 20: Reason about patterns in real-world situations.</p>
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## Measurement and Data Reasoning

**5.MDR.7 Solve problems involving customary measurements, metric measurements, and time and analyze graphical displays of data to answer relevant questions.**

### Georgia’s K–12 Mathematics Standards

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

<p><b>5.MDR.7.1</b></p> <p>Explore realistic problems involving different units of measurement, including distance, mass, weight, volume, and time.</p>	<p>4 M1 Lesson 23: Express metric measurements of length in terms of smaller units.</p> <p>4 M1 Lesson 24: Express metric measurements of mass and liquid volume in terms of smaller units.</p> <p>4 M2 Lesson 17: Express measurements of length in terms of smaller units.</p> <p>4 M3 Lesson 18: Express units of time in terms of smaller units.</p> <p>4 M3 Lesson 19: Express customary measurements of weight in terms of smaller units.</p> <p>4 M3 Lesson 20: Express customary measurements of liquid volume in terms of smaller units.</p> <p>5 M1 Lesson 5: Convert measurements and describe relationships between metric units.</p> <p>5 M1 Lesson 6: Solve multi-step word problems by using metric measurement conversion.</p> <p>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</p> <p>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</p> <p>5 M4 Lesson 26: Solve a real-world problem involving metric measurements.</p> <p>5 M4 Lesson 27: Convert metric measurements involving decimals.</p> <p>5 M4 Lesson 28: Convert customary measurements involving decimals.</p> <p>5 M4 Lesson 29: Interpret, evaluate, and compare numerical expressions involving decimals.</p> <p>5 M4 Lesson 30: Create and solve real-world problems for given numerical expressions involving decimals.</p>

**Georgia’s K–12  
Mathematics Standards**

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

<p><b>5.MDR.7.2</b></p> <p>Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life.</p>	<p>5 Data Talk: Volumes in the Solar System</p> <p>5 Data Talk: A Trip Around the Sun</p> <p>5 Data Talk: Astronauts in Space</p> <p>5 Data Talk: Agriculture in Our States</p> <p>5 Data Talk: Power from Renewable Energy</p> <p>5 Data Talk: Our Most Populous Counties</p> <p>5 Data Talk: American Pastimes</p> <p>5 Data Talk: Water in the World</p> <p>5 Data Talk: Space for Sports</p> <p>5 Data Talk: Blood Types</p> <p>5 Data Talk: Internet Use Around the US</p> <p>5 Data Talk: Eye Colors of the US Population</p> <p>5 Data Talk: A Walk in the Park</p> <p>5 Data Talk: Changing Matter</p> <p>5 Data Investigation: US Astronauts</p> <p>5 Data Investigation: A Typical Night of Sleep</p> <p>5 Data Investigation: Wind-Power Capacity</p> <p>5 M2 Lesson 15: Represent data on a line plot.</p> <p>5 M2 Lesson 16: Solve problems by using data from a line plot.</p> <p>5 M2 Lesson 17: Solve problems by equally redistributing a total amount.</p> <p><i>Supplemental material is necessary to address the statistical investigative process.</i></p>
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**Georgia’s K–12  
Mathematics Standards**

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

<p><b>5.MDR.7.3</b></p> <p>Convert among units within the metric system and then apply these conversions to solve multistep, practical problems.</p>	<p>5 M1 Lesson 5: Convert measurements and describe relationships between metric units.</p> <p>5 M1 Lesson 6: Solve multi-step word problems by using metric measurement conversion.</p> <p>5 M3 Lesson 5: Convert larger customary measurement units to smaller measurement units.</p> <p>5 M3 Lesson 6: Convert smaller customary measurement units to larger measurement units.</p> <p>5 M4 Lesson 26: Solve a real-world problem involving metric measurements.</p> <p>5 M4 Lesson 27: Convert metric measurements involving decimals.</p> <p>5 M4 Lesson 28: Convert customary measurements involving decimals.</p> <p>5 M4 Lesson 29: Interpret, evaluate, and compare numerical expressions involving decimals.</p> <p>5 M4 Lesson 30: Create and solve real-world problems for given numerical expressions involving decimals.</p>
<p><b>5.MDR.7.4</b></p> <p>Convert among units within relative sizes of measurement units within the customary measurement system.</p>	<p>4 M1 Lesson 23: Express metric measurements of length in terms of smaller units.</p> <p>4 M1 Lesson 24: Express metric measurements of mass and liquid volume in terms of smaller units.</p> <p>4 M2 Lesson 17: Express measurements of length in terms of smaller units.</p> <p>4 M3 Lesson 18: Express units of time in terms of smaller units.</p> <p>4 M3 Lesson 19: Express customary measurements of weight in terms of smaller units.</p> <p>4 M3 Lesson 20: Express customary measurements of liquid volume in terms of smaller units.</p>

## Geometric and Spatial Reasoning

**5.GSR.8 Examine properties of polygons and rectangular prisms, classify polygons by their properties, and discover volume of right rectangular prisms.**

### Georgia’s K–12 Mathematics Standards

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

<p><b>5.GSR.8.1</b></p> <p>Classify, compare, and contrast polygons based on properties.</p>	<p>5 M5 Lesson 1: Analyze hierarchies and identify properties of quadrilaterals.</p> <p>5 M5 Lesson 2: Classify trapezoids based on their properties.</p> <p>5 M5 Lesson 3: Classify parallelograms based on their properties.</p> <p>5 M5 Lesson 4: Classify rectangles and rhombuses based on their properties.</p> <p>5 M5 Lesson 5: Classify kites and squares based on their properties.</p> <p>5 M5 Lesson 6: Identify quadrilaterals from given properties.</p> <p>5 M5 Lesson 7: Classify quadrilaterals in a hierarchy based on properties.</p> <p>5 M6 Lesson 12: Graph and classify quadrilaterals in the coordinate plane.</p>
<p><b>5.GSR.8.2</b></p> <p>Determine, through exploration and investigation, that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.</p>	<p>5 M5 Lesson 1: Analyze hierarchies and identify properties of quadrilaterals.</p> <p>5 M5 Lesson 2: Classify trapezoids based on their properties.</p> <p>5 M5 Lesson 3: Classify parallelograms based on their properties.</p> <p>5 M5 Lesson 4: Classify rectangles and rhombuses based on their properties.</p> <p>5 M5 Lesson 5: Classify kites and squares based on their properties.</p> <p>5 M5 Lesson 6: Identify quadrilaterals from given properties.</p> <p>5 M5 Lesson 7: Classify quadrilaterals in a hierarchy based on properties.</p>

**Georgia’s K–12  
Mathematics Standards**

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

<p><b>5.GSR.8.3</b></p> <p>Investigate volume of right rectangular prisms by packing them with unit cubes without gaps or overlaps. Then, determine the total volume to solve problems.</p>	<p>5 M5 Lesson 16: Identify attributes and properties of right rectangular prisms.</p> <p>5 M5 Lesson 17: Find the volume of right rectangular prisms by packing with unit cubes and counting.</p> <p>5 M5 Lesson 18: Find the volume of right rectangular prisms by packing with improvised units.</p> <p>5 M5 Lesson 19: Compose and decompose right rectangular prisms to find their volume by using layers.</p> <p>5 M5 Lesson 20: Interpret volume as filling.</p> <p>5 M5 Lesson 21: Relate volumes of solids and liquid volume.</p> <p>5 M5 Lesson 22: Find the volumes of right rectangular prisms by using the area of the base.</p> <p>5 M5 Lesson 23: Find the volumes of right rectangular prisms by multiplying the edge lengths.</p>
<p><b>5.GSR.8.4</b></p> <p>Discover and explain how the volume of a right rectangular prism can be found by multiplying the area of the base times the height to solve authentic, mathematical problems.</p>	<p>5 M5 Lesson 1: Analyze hierarchies and identify properties of quadrilaterals.</p> <p>5 M5 Lesson 2: Classify trapezoids based on their properties.</p> <p>5 M5 Lesson 3: Classify parallelograms based on their properties.</p> <p>5 M5 Lesson 4: Classify rectangles and rhombuses based on their properties.</p> <p>5 M5 Lesson 5: Classify kites and squares based on their properties.</p> <p>5 M5 Lesson 6: Identify quadrilaterals from given properties.</p> <p>5 M5 Lesson 7: Classify quadrilaterals in a hierarchy based on properties.</p> <p>5 M5 Lesson 8: Find areas of square tiles with fraction side lengths by relating the tile to a unit square.</p> <p>5 M5 Lesson 9: Organize, count, and represent a collection of square tiles.</p> <p>5 M5 Lesson 10: Find the area of a rectangle with fraction side lengths by relating the rectangle to a unit square.</p> <p>5 M5 Lesson 11: Find areas of rectangles with fraction side lengths by using multiplication.</p> <p>5 M5 Lesson 12: Multiply mixed numbers.</p> <p>5 M5 Lesson 13: Solve mathematical problems involving areas of composite figures with mixed-number side lengths.</p>

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<p><b>5.GSR.8.4 <i>continued</i></b></p>	<p>5 M5 Lesson 14: Solve real-world problems involving areas of composite figures with mixed-number side lengths.</p> <p>5 M5 Lesson 15: Solve multi-step word problems involving multiplication of mixed numbers.</p> <p>5 M5 Lesson 16: Identify attributes and properties of right rectangular prisms.</p> <p>5 M5 Lesson 17: Find the volume of right rectangular prisms by packing with unit cubes and counting.</p> <p>5 M5 Lesson 18: Find the volume of right rectangular prisms by packing with improvised units.</p> <p>5 M5 Lesson 19: Compose and decompose right rectangular prisms to find their volume by using layers.</p> <p>5 M5 Lesson 20: Interpret volume as filling.</p> <p>5 M5 Lesson 21: Relate volumes of solids and liquid volume.</p> <p>5 M5 Lesson 22: Find the volumes of right rectangular prisms by using the area of the base.</p> <p>5 M5 Lesson 23: Find the volumes of right rectangular prisms by multiplying the edge lengths.</p> <p>5 M5 Lesson 24: Solve word problems involving volumes of right rectangular prisms.</p> <p>5 M5 Lesson 25: Find the volumes of solid figures composed of right rectangular prisms.</p> <p>5 M5 Lesson 26: Solve word problems involving perimeter, area, and volume.</p> <p>5 M5 Lesson 27: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 1.</p> <p>5 M5 Lesson 28: Apply concepts and formulas of volume to design a sculpture by using right rectangular prisms, part 2.</p>
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