EUREKA MATH².

Grade 3 | Louisiana Student Standards for Mathematics Correlation to *Eureka Math*^{2®}*Louisiana*

When the original *Eureka Math*[®] curriculum was released, it quickly became the most widely used K-5 mathematics curriculum in the country. Now, the Great Minds[®] teacher-writers have created *Eureka Math*^{2®} *Louisiana*, 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*² *Louisiana* 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* and moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

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

Operations and Algebraic Thinking

3.OA.A Represent and solve problems involving multiplication and division.

Louisiana Student Standards for Mathematics	Aligned Components
3.OA.A.1	3 M1 Lesson 2: Interpret equal groups as multiplication.
Interpret products of whole numbers,	3 M1 Lesson 3: Relate multiplication to the array model.
e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each.	3 M1 Lesson 4: Interpret the meaning of factors as number of groups or number in each group.
of objects in 5 groups of 7 objects each.	3 M1 Lesson 10: Demonstrate the commutative property of multiplication using a unit of 2 and the array model.
	3 M1 Lesson 11: Demonstrate the commutative property of multiplication using a unit of 4 and the array model.
	3 M1 Lesson 13: Demonstrate the commutative property of multiplication using a unit of 3 and the array model.
	3 M3 Lesson 15: Reason about and explain patterns of multiplication and division with units of 1 and 0.
	3 M3 Lesson 18: Create multiplication and division word problems.
3.OA.A.2	3 M1 Topic B: Conceptual Understanding of Division
Interpret whole-number quotients	3 M1 Topic D: Two Interpretations of Division
of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares	3 M3 Lesson 15: Reason about and explain patterns of multiplication and division with units of 1 and 0.
	3 M3 Lesson 18: Create multiplication and division word problems.
when 56 objects are partitioned into equal shares of 8 objects each.	

Louisiana Student Standards for Mathematics	Aligned Components
3.OA.A.3	3 M1 Lesson 5: Represent and solve multiplication word problems by using drawings and equations.
Use multiplication and division within 100	3 M1 Lesson 8: Model measurement and partitive division by drawing arrays.
to solve word problems in situations	3 M1 Lesson 9: Represent and solve division word problems using drawings and equations.
involving equal groups, arrays, and measurement quantities, e.g., by using	3 M1 Lesson 16: Model the quotient as the number of groups using units of 2, 3, 4, 5, and 10.
drawings and equations with a symbol	3 M1 Lesson 17: Model the quotient as the size of each group using units of 2, 3, 4, 5, and 10.
for the unknown number to represent the problem.	3 M1 Lesson 18: Represent and solve measurement and partitive division word problems.
the problem.	3 M1 Lesson 22: Represent and solve two-step word problems using the properties of multiplication.
	3 M1 Lesson 23: Represent and solve two-step word problems using drawings and equations.
	3 M3 Lesson 2: Count by units of 6 to multiply and divide by using arrays.
	3 M3 Lesson 7: Count by units of 7 to multiply and divide by using arrays and tape diagrams.
	3 M3 Lesson 8: Use the break apart and distribute strategy to multiply with units of 7.
	3 M3 Lesson 12: Solve one-step word problems involving multiplication and division.
	3 M3 Lesson 25: Apply multiplication and division concepts to complete a multi-part task.
3.OA.A.4	3 M1 Lesson 15: Model division as an unknown factor problem.
Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	3 M1 Lesson 16: Model the quotient as the number of groups using units of 2, 3, 4, 5, and 10.
	3 M1 Lesson 17: Model the quotient as the size of each group using units of 2, 3, 4, 5, and 10.
	3 M3 Lesson 2: Count by units of 6 to multiply and divide by using arrays.
	3 M3 Lesson 3: Count by units of 8 to multiply and divide by using arrays.
	3 M3 Lesson 7: Count by units of 7 to multiply and divide by using arrays and tape diagrams.

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Operations and Algebraic Thinking

3.OA.B Understand properties of multiplication and the relationship between multiplication and division.

Louisiana Student Standards for Mathematics	Aligned Components
3.OA.B.5	3 M1 Topic C: Properties of Multiplication
Apply properties of operations	3 M1 Lesson 19: Use the distributive property to break apart multiplication problems into known facts.
as strategies to multiply and divide.	3 M3 Lesson 1: Organize, count, and represent a collection of objects.
	3 M3 Lesson 3: Count by units of 8 to multiply and divide by using arrays.
	3 M3 Lesson 4: Decompose pictorial arrays to create expressions with three factors.
	3 M3 Lesson 5: Use the break apart and distribute strategy to multiply with units of 6 and 8.
	3 M3 Lesson 6: Use the break apart and distribute strategy to divide with units of 6 and 8.
	3 M3 Lesson 8: Use the break apart and distribute strategy to multiply with units of 7.
	3 M3 Lesson 9: Model the associative property as a strategy to multiply.
	3 M3 Lesson 10: Use parentheses in expressions with different operations.
	3 M3 Lesson 11: Use the break apart and distribute strategy to divide with units of 7.
	3 M3 Lesson 14: Apply strategies and identify patterns to multiply with units of 9.
	3 M3 Lesson 21: Multiply by multiples of 10 by using place value strategies and the associative property.
	3 M3 Lesson 23: Identify patterns and apply strategies to multiply with units of 11 and 12.
	3 M3 Lesson 24: Organize, count, and represent a collection of objects.
3.OA.B.6	3 M1 Lesson 15: Model division as an unknown factor problem.
Understand division as an	3 M1 Lesson 16: Model the quotient as the number of groups using units of 2, 3, 4, 5, and 10.
unknown-factor problem.	3 M1 Lesson 17: Model the quotient as the size of each group using units of 2, 3, 4, 5, and 10.
	3 M1 Lesson 20: Use the distributive property to break apart division problems into known facts.
	3 M3 Lesson 2: Count by units of 6 to multiply and divide by using arrays.
	3 M3 Lesson 7: Count by units of 7 to multiply and divide by using arrays and tape diagrams.

Operations and Algebraic Thinking

3.OA.C Multiply and divide within 100.

Louisiana Student Standards for Mathematics

Aligned Components

3.0A.C.7	3 M1 Lesson 12: Demonstrate the distributive property using a unit of 4.
Fluently multiply and divide within 100 ,	3 M1 Lesson 14: Demonstrate the distributive property using units of 2, 3, 4, 5, and 10.
using strategies such as the relationship between multiplication and division	3 M1 Topic E: Application of Multiplication and Division Concepts
(e.g., knowing that $8 \times 5 = 40$, one knows	3 M3 Lesson 1: Organize, count, and represent a collection of objects.
$40 \div 5 = 8$) or properties of operations. By	3 M3 Lesson 14: Apply strategies and identify patterns to multiply with units of 9.
the end of Grade 3, know from memory all products of two one-digit numbers.	3 M3 Lesson 17: Identify and complete patterns with input-output tables.
p	3 M3 Lesson 24: Organize, count, and represent a collection of objects.
	3 M6 Lesson 26: Fluently multiply and divide within 100 and add and subtract within $1,000$.

Operations and Algebraic Thinking

3.OA.D Solve problems involving the four operations, and identify and explain patterns in arithmetic.

Louisiana Student Standards for Mathematics	Aligned Components
3.OA.D.8	3 M1 Lesson 22: Represent and solve two-step word problems using the properties of multiplication.
Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	 3 M1 Lesson 23: Represent and solve two-step word problems using drawings and equations. 3 M2 Lesson 25: Solve two-step word problems. 3 M3 Lesson 19: Solve two-step word problems involving all four operations and assess the reasonableness of solutions. 3 M3 Lesson 22: Solve two-step word problems involving multiplication of single-digit factors and multiples of 10. 3 M3 Lesson 25: Apply multiplication and division concepts to complete a multi-part task.
strategies including rounding.	multiples of 10. 3 M3 Lesson 25: Apply multiplication and division concepts to complete a multi-part task.

Louisiana Student Standards for Mathematics	Aligned Components
3.0A.D.9	3 M3 Lesson 13: Count by units of 9 to multiply.
Identify arithmetic patterns (including	3 M3 Lesson 14: Apply strategies and identify patterns to multiply with units of 9.
patterns in the addition table or multiplication table), and explain them using properties of operations.	3 M3 Lesson 15: Reason about and explain patterns of multiplication and division with units of 1 and 0.
	3 M3 Lesson 16: Identify patterns using the multiplication table.
	3 M3 Lesson 17: Identify and complete patterns with input-output tables.
	3 M3 Lesson 23: Identify patterns and apply strategies to multiply with units of 11 and 12.

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Number and Operations in Base Ten

3.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic.

Louisiana Student Standards for Mathematics

3.NBT.A.1	3 M2 Topic B: Rounding to the Nearest Ten and Hundred
Use place value understanding to round whole numbers to the nearest 10 or 100.	
3.NBT.A.2	3 M2 Lesson 12: Estimate sums and differences by rounding.
Fluently add and subtract within $1,000$	3 M2 Lesson 14: Use place value understanding to add and subtract like units.
using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	3 M2 Lesson 15: Use the associative property to make the next ten to add.
	3 M2 Lesson 16: Use compensation to add.
	3 M2 Lesson 17: Use place value understanding to subtract efficiently using take from a ten.
	3 M2 Lesson 18: Use place value understanding to subtract efficiently using take from a hundred.
	3 M2 Lesson 19: Use compensation to subtract.
	3 M2 Lesson 20: Add measurements using the standard algorithm to compose larger units once.

for Mathematics	Aligned Components
3.NBT.A.2 continued	3 M2 Lesson 21: Add measurements using the standard algorithm to compose larger units twice.
	3 M2 Lesson 22: Subtract measurements using the standard algorithm to decompose larger units once.
	3 M2 Lesson 23: Subtract measurements using the standard algorithm to decompose larger units twice.
	3 M2 Lesson 24: Subtract measurements using the standard algorithm to decompose larger units across two place values.
	3 M6 Lesson 26: Fluently multiply and divide within 100 and add and subtract within $1,000$.
3.NBT.A.3	3 M3 Lesson 20: Multiply by multiples of 10 by using the place value chart.
Multiply one-digit whole numbers by multiples of 10 in the range 10-90	3 M3 Lesson 21: Multiply by multiples of 10 by using place value strategies and the associative property.
(e.g., 9×80 , 5×60) using strategies based on place value and properties of operations.	3 M3 Lesson 22: Solve two-step word problems involving multiplication of single-digit factors and multiples of 10.

Louisiana Student Standards

Number and Operations-Fractions

3.NF.A Develop understanding of fractions as numbers.

Louisiana Student Standards for Mathematics	Aligned Components
3.NF.A.1	3 M5 Lesson 4: Partition a whole into fractional units pictorially and identify the unit fraction.
Understand a fraction $\frac{1}{b}$, with denominators 2, 3, 4, 6, and 8, as the quantity formed by 1 part when a whole is partitioned into <i>b</i> equal parts; understand a fraction $\frac{a}{b}$ as the quantity formed by <i>a</i> parts of size $\frac{1}{b}$.	 3 M5 Lesson 5: Partition a whole into fractional units and write fractions in fraction form. 3 M5 Lesson 6: Build non-unit fractions less than 1 from unit fractions concretely. 3 M5 Lesson 7: Identify and represent a whole as two parts: a unit fraction and a non-unit fraction. 3 M5 Lesson 8: Identify and represent a whole as two non-unit fractions. 3 M5 Lesson 27: Apply fraction concepts to complete a multi-part task.

Louisiana Student Standards for Mathematics

3.NF.A.2 Understand a fraction with denominators 2, 3, 4, 6, and 8 as a number on a number line diagram.	This standard is fully addressed by the lessons aligned to its subsections.
3.NF.A.2.a Represent a fraction $\frac{1}{b}$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into <i>b</i> equal parts. Recognize that each part has size $\frac{1}{b}$ and that the endpoint of the part based at 0 locates the number $\frac{1}{b}$ on the number line.	3 M5 Lesson 11: Locate fractions from 0 to 1 on a number line by using fraction tiles. 3 M5 Lesson 12: Represent fractions from 0 to 1 on a number line. 3 M5 Lesson 15: Identify fractions on a ruler as numbers on a number line.
3.NF.A.2.b Represent a fraction $\frac{a}{b}$ on a number line diagram by marking off a lengths $\frac{1}{b}$ from 0. Recognize that the resulting interval has size $\frac{a}{b}$ and that its endpoint locates the number $\frac{a}{b}$ on the number line.	 3 M5 Lesson 11: Locate fractions from 0 to 1 on a number line by using fraction tiles. 3 M5 Lesson 12: Represent fractions from 0 to 1 on a number line. 3 M5 Lesson 15: Identify fractions on a ruler as numbers on a number line. 3 M5 Lesson 18: Compare fractions with like units by using a number line. 3 M5 Lesson 26: Create a ruler with 1-inch, half-inch, and quarter-inch intervals. 3 M5 Lesson 27: Apply fraction concepts to complete a multi-part task.
3.NF.A.3 Explain equivalence of fractions with denominators 2, 3, 4, 6, and 8 in special cases, and compare fractions by reasoning about their size.	This standard is fully addressed by the lessons aligned to its subsections.

for Mathematics	Aligned Components
3.NF.A.3.a	3 M5 Lesson 13: Identify equivalent fractions from 0 to 1 with tape diagrams and on number lines.
Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	3 M5 Lesson 14: Recognize that equivalent fractions share the same location on a number line.
	3 M5 Lesson 16: Measure lengths and record data on a line plot.
	3 M5 Lesson 17: Represent fractions greater than 1 on a number line and identify fractions equivalent to whole numbers.
	3 M5 Lesson 22: Identify fractions equivalent to whole numbers by using number lines.
	3 M5 Lesson 23: Reason to find fractions equivalent to whole numbers by using patterns and number lines.
3.NF.A.3.b	3 M5 Lesson 13: Identify equivalent fractions from 0 to 1 with tape diagrams and on number lines.
Recognize and generate simple	3 M5 Lesson 14: Recognize that equivalent fractions share the same location on a number line.
equivalent fractions, e.g., $\frac{1}{2} = \frac{2}{4}, \frac{4}{6} = \frac{2}{3}$. Explain why the fractions are equivalent,	3 M5 Lesson 16: Measure lengths and record data on a line plot.
e.g., by using a visual fraction model.	3 M5 Lesson 17: Represent fractions greater than 1 on a number line and identify fractions equivalent to whole numbers.
	3 M5 Lesson 22: Identify fractions equivalent to whole numbers by using number lines.
	3 M5 Lesson 23: Reason to find fractions equivalent to whole numbers by using patterns and number lines.
	3 M5 Lesson 24: Generate equivalent fractions greater than 1 by using a number line.
	3 M5 Lesson 26: Create a ruler with 1-inch, half-inch, and quarter-inch intervals.

Louisiana Student Standards

A 11.

for Mathematics	Aligned Components
3.NF.A.3.c	3 M5 Lesson 8: Identify and represent a whole as two non-unit fractions.
Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.	3 M5 Lesson 17: Represent fractions greater than 1 on a number line and identify fractions equivalent to whole numbers.
	3 M5 Lesson 22: Identify fractions equivalent to whole numbers by using number lines.
	3 M5 Lesson 23: Reason to find fractions equivalent to whole numbers by using patterns and number lines.
	3 M5 Lesson 24: Generate equivalent fractions greater than 1 by using a number line.
	3 M5 Lesson 25: Express whole numbers as fractions with a denominator of 1.
3.NF.A.3.d	3 M5 Lesson 9: Compare unit fractions by reasoning about their size concretely.
Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with the symbols $>$, =, or <, and justify the conclusions, e.g., by using a visual fraction model.	3 M5 Lesson 10: Compare non-unit fractions less than 1 with the same numerator by using tape diagrams.
	3 M5 Lesson 18: Compare fractions with like units by using a number line.
	3 M5 Lesson 19: Compare fractions with unlike units but the same numerator by using number lines.
	3 M5 Lesson 20: Compare fractions with related units by using a number line.
	3 M5 Lesson 21: Compare various fractions by representing them on number lines.
	3 M5 Lesson 27: Apply fraction concepts to complete a multi-part task.

Louisiana Student Standards

A 11.

Measurements and Data

3.MD.A Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

Louisiana Student Standards for Mathematics	Aligned Components
3.MD.A.1 Understand time to the nearest minute.	This standard is fully addressed by the lessons aligned to its subsections.
3.MD.A.1.a Tell and write time to the nearest minute and measure time intervals in minutes, within 60 minutes, on an analog and digital clock.	 3 M6 Lesson 1: Relate skip-counting by fives on the clock to telling time on the number line. 3 M6 Lesson 2: Count by fives and ones on the number line as a strategy for telling time to the nearest minute on the clock. 3 M6 Lesson 3: Solve time word problems where the end time is unknown. 3 M6 Lesson 4: Solve time word problems where the start time is unknown. 3 M6 Lesson 5: Solve time word problems where the change in time is unknown. 3 M6 Lesson 6: Solve time word problems and use time data to create a line plot.
3.MD.A.1.b Calculate elapsed time greater than 60 minutes to the nearest quarter and half hour on a number line diagram.	3 M6 Lesson 0-1: Calculate elapsed time greater than 60 minutes to the nearest quarter hour and half hour.
3.MD.A.2 Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	3 M2 Topic A: Understanding Place Value Concepts Through Metric Measurement

Measurement and Data

3.MD.B Represent and interpret data.

Louisiana Student Standards for Mathematics

Aligned Components

3.MD.B.3 Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs.	3 M2 Lesson 13: Collect and represent data in a scaled bar graph and solve related problems. 3 M6 Lesson 22: Generate categorical data and represent it by using a scaled picture graph. 3 M6 Lesson 23: Solve word problems by creating scaled picture graphs and scaled bar graphs.
3.MD.B.4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units—whole numbers, halves, or quarters.	 3 M5 Lesson 16: Measure lengths and record data on a line plot. 3 M6 Lesson 20: Record measurement data in a line plot. 3 M6 Lesson 21: Create and analyze a line plot for measurement data to the nearest half unit and quarter unit.

Measurement and Data

Louisiana Student Standarda

3.MD.C Geometric measurement: understand concepts of area and relate area to multiplication and to addition.

for Mathematics	Aligned Components
3.MD.C.5	3 M4 Topic A: Foundations for Understanding Area
Recognize area as an attribute of plane figures and understand concepts of area measurement.	3 M4 Lesson 16: Solve historical math problems involving area.

Louisiana Student Standards for Mathematics

3.MD.C.5.a A square with side length 1 unit, called "a unit square," is said to have "one square unit" of area, and can be used to measure area.	 3 M4 Lesson 2: Recognize area as an attribute of polygons. 3 M4 Lesson 3: Tile polygons to find their areas. 3 M4 Lesson 4: Compose rectangles to compare areas. 3 M4 Lesson 5: Relate side lengths to the number of tiles on a side. 3 M4 Lesson 16: Solve historical math problems involving area.
3.MD.C.5.b A plane figure which can be covered without gaps or overlaps by <i>n</i> unit squares is said to have an area of <i>n</i> square units.	 3 M4 Lesson 2: Recognize area as an attribute of polygons. 3 M4 Lesson 3: Tile polygons to find their areas. 3 M4 Lesson 4: Compose rectangles to compare areas. 3 M4 Lesson 5: Relate side lengths to the number of tiles on a side. 3 M4 Lesson 16: Solve historical math problems involving area.
3.MD.C.6 Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).	 3 M4 Lesson 2: Recognize area as an attribute of polygons. 3 M4 Lesson 3: Tile polygons to find their areas. 3 M4 Lesson 4: Compose rectangles to compare areas. 3 M4 Lesson 5: Relate side lengths to the number of tiles on a side. 3 M4 Lesson 6: Tile rectangles with squares to make arrays and relate the side lengths to the area. 3 M4 Lesson 7: Draw rows and columns to complete a rectangular array and determine its area. 3 M4 Lesson 16: Solve historical math problems involving area. 3 M4 Lesson 18: Find the area of shapes and represent area data on a line plot.
3.MD.C.7 Relate area to the operations of multiplication and addition.	This standard is fully addressed by the lessons aligned to its subsections.

Louisiana Student Standards **Aligned Components** for Mathematics 3 M4 Lesson 6: Tile rectangles with squares to make arrays and relate the side lengths to the area. 3.MD.C.7.a 3 M4 Lesson 7: Draw rows and columns to complete a rectangular array and determine its area. Find the area of a rectangle with whole-number side lengths by tiling 3 M4 Lesson 8: Determine the area of a rectangle by using side lengths. it, and show that the area is the same 3 M4 Lesson 12: Find all possible side lengths of rectangles with a given area. as would be found by multiplying the side lengths. 3 MD C 7 h 3 M4 Lesson 8: Determine the area of a rectangle by using side lengths. 3 M4 Lesson 9: Multiply side lengths to find the area of a rectangle. Multiply side lengths to find areas of rectangles with whole-number side 3 M4 Lesson 11: Decompose to find the total area of a rectangle. lengths in the context of solving real 3 M4 Lesson 12: Find all possible side lengths of rectangles with a given area. world and mathematical problems, and represent whole-number 3 M4 Lesson 13: Apply area understanding to real-world situations. products as rectangular areas 3 M4 Lesson 17: Apply area concepts to a real-world context. in mathematical reasoning. 3 M4 Lesson 18: Find the area of shapes and represent area data on a line plot. 3 M4 Lesson 10: Compose large rectangles and reason about their areas. 3.MD.C.7.c 3 M4 Lesson 11: Decompose to find the total area of a rectangle. Use tiling to show in a concrete case that the area of a rectangle with 3 M4 Lesson 13: Apply area understanding to real-world situations. whole-number side lengths a and b + c is the sum of $a \times b$ and $a \times c$. Use area models to represent the distributive property in mathematical reasoning.

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Measurement and Data

3.MD.D Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

Louisiana Student Standards for Mathematics	Aligned Components
3.MD.D.8	3 M6 Topic C: Problem Solving with Perimeter
Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.	3 M6 Lesson 19: Measure the perimeter of various circles to the nearest quarter inch by using string.

Measurement and Data

3.MD.E Work with money.

Louisiana Student Standards for Mathematics	Aligned Components
3.MD.E.9	3 M6 Lesson 7-1: Solve money word problems involving coins.
Solve word problems involving pennies, nickels, dimes, quarters, and bills greater than one dollar, using the dollar and cent symbols appropriately.	3 M6 Lesson 7-2: Solve money word problems involving dollars.

Geometry

3.G.A Reason with shapes and their attributes.

Louisiana Student Standards for Mathematics

3.G.A.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	3 M4 Lesson 1: Explore attributes of squares, rectangles, and trapezoids. 3 M4 Lesson 5: Relate side lengths to the number of tiles on a side. 3 M6 Topic B: Attributes of Two-Dimensional Figures
3.G.A.2 Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	3 M5 Topic A: Partition a Whole into Equal Parts 3 M5 Topic B: Unit Fractions and Their Relationship to the Whole