Lesson	Mathematics Standards, Grade 3	Pacing
Unit 1 UNDERSTAND MULTIPLICATION AND AREA		
Module 1: Understand Multiplication		
Lesson 1.1 Count Equal Groups	Interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each.	1 day
Lesson 1.2 Relate Addition and Multiplication	Interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each.	1 day
Lesson 1.3 Represent Multiplication with Arrays	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	1 day
Lesson 1.4 Understand the Commutative Property of Multiplication	Apply properties of operations as strategies to multiply and divide.	1 day
Lesson 1.5 Represent Multiplication with Number Lines	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	1 day
Lesson 1.6 Represent Multiplication with Bar Models	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	2 days
Module 2: Relate Multiplication and Area		
Lesson 2.1 Understand Area by Counting Unit Squares	Recognize area as an attribute of plane figures and understand concepts of area measurement.	1 day
	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.	
Lesson 2.2 Measure Area by Counting Unit Squares	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.	1 day
	Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).	
Lesson 2.3 Relate Area to Addition and	Relate area to the operations of multiplication and addition.	1 day
Multiplication	Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.	
Lesson 2.4 Solve Problems with Area	Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.	1 day

Major
Supporting
Additional

In addition to the core instructional pacing, HMH recommends the following:

- 3 days per year for the Growth Measure assessments
- 2 days per module for the Module Opener, Are You Ready?, Module Review, and Module Test
- 1 day per unit for the Performance Task

Using these recommendations, the total pacing for Grade 3 is 165 days.

Lesson	Mathematics Standards, Grade 3	Pacing
Lesson 2.5 Find the Area of Combined Rectangles	<ul> <li>Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths a and b + c is the sum of a × b and a × c.</li> <li>Use area models to represent the distributive property in mathematical reasoning.</li> <li>Recognize area as additive. Find areas of rectilinear figures by</li> </ul>	1 day
	decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real world problems.	
Unit 2 MULTIPLICATION AND DIVISION		
Module 3: Understand Multiplication Stra	ategies	
Lesson 3.1 Multiply with 2 and 4	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	2 days
Lesson 3.2 Multiply with 5 and 10	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	2 days
Lesson 3.3 Multiply with 3 and 6	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	2 days
Module 4: Apply Multiplication Propertie	es as Strategies	
Lesson 4.1 Understand the Identity and Zero Properties of Multiplication	Apply properties of operations as strategies to multiply and divide.	1 day
Lesson 4.2 Understand the Distributive Property	Apply properties of operations as strategies to multiply and divide.	1 day
Lesson 4.3 Understand the Associative Property of Multiplication	<ul> <li>Apply properties of operations as strategies to multiply and divide.</li> <li>Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 × 5 = 40, one knows 40 ÷ 5 = 8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.</li> </ul>	1 day
Lesson 4.4 Multiply with 7	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$ , one knows $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	1 day
	Apply properties of operations as strategies to multiply and divide.	

Lesson	Mathematics Standards, Grade 3	Pacing
Module 4: Apply Multiplication Properties as Strategies		
Lesson 4.5 Multiply with 8	<ul> <li>Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 × 5 = 40, one knows 40 ÷ 5 = 8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.</li> <li>Apply properties of operations as strategies to multiply and divide.</li> </ul>	1 day
Lesson 4.6 Multiply with 9	<ul> <li>Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 × 5 = 40, one knows 40 ÷ 5 = 8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.</li> <li>Apply properties of operations as strategies to multiply and divide.</li> </ul>	1 day
Lesson 4.7 Identify Number Patterns on the Multiplication Table	Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.	2 days
	Apply properties of operations as strategies to multiply and divide.	
Module 5: Multiplication with Multiples of		
Lesson 5.1 Use the Distributive Property	Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., $9 \times 80$ , $5 \times 60$ ) using strategies based on place value and properties of operations.	2 days
	Use tiling to show in a concrete case that the area of a rectangle with 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.	
Lesson 5.2 Use the Associative Property of Multiplication	Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., $9 \times 80$ , $5 \times 60$ ) using strategies based on place value and properties of operations.	1 day
	Apply properties of operations as strategies to multiply and divide.	
Lesson 5.3 Use Place-Value Strategies to Multiply with Multiples of 10	Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., $9 \times 80$ , $5 \times 60$ ) using strategies based on place value and properties of operations.	1 day
	Interpret products of whole numbers, e.g., interpret $5 \times 7$ as the total number of objects in 5 groups of 7 objects each.	
Lesson 5.4 Multiply Multiples of 10 by 1-Digit Numbers	Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., $9 \times 80$ , $5 \times 60$ ) using strategies based on place value and properties of operations.	1 day
	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	

Lesson	Mathematics Standards, Grade 3	Pacing
Module 6: Understand Division		
Lesson 6.1 Represent Division	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	1 day
Lesson 6.2 Separate Objects into Equal Groups	Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.	1 day
Lesson 6.3 Find the Number of Equal Groups	Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.	1 day
Lesson 6.4 Relate Subtraction and Division	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	1 day
Lesson 6.5 Represent Division with Arrays	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	1 day
Lesson 6.6 Represent Division with Bar Models	Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.	1 day
Lesson 6.7 Apply Division Rules for 1 and 0	Apply properties of operations as strategies to multiply and divide.	1 day
Module 7: Relate Multiplication and Divi	sion	
Lesson 7.1 Relate Multiplication and Division	Understand division as an unknown-factor problem.	1 day
Lesson 7.2 Write Related Facts	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$ , one knows $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	1 day
Lesson 7.3 Multiply and Divide with 2, 4, and 8	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	2 days
	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$ , one knows $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	

Lesson	Mathematics Standards, Grade 3	Pacing
Module 7: Relate Multiplication and Divis	ion	
Lesson 7.4 Multiply and Divide with 5 and 10	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	2 days
	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$ , one knows $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	
Lesson 7.5 Multiply and Divide with 3 and 6	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	2 days
	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$ , one knows $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	
Lesson 7.6 Multiply and Divide with 7 and 9	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	2 days
	Apply properties of operations as strategies to multiply and divide.	
Lesson 7.7 Build Fluency with  Multiplication and Division	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$ , one knows $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	1 day
Module 8: Apply Multiplication and Divis	ion	
Lesson 8.1 Identify and Extend Patterns	Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.	1 day
Lesson 8.2 Find Unknown Factors and Numbers	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	2 days
	Understand division as an unknown-factor problem.	
Lesson 8.3 Use Multiplication and Division to Solve Problem Situations	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	1 day
	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	
Lesson 8.4 Solve Two-Step Problems	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	2 days
	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.	

Lesson	Mathematics Standards, Grade 3	Pacing
Lesson 8.5 Practice with One- and Two- Step Problems	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.	1 day
	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	
Unit 3 ADDITION AND SUBTRACTION S		
Module 9: Addition and Subtraction Stra	tegies	
Lesson 9.1 Identify Number Patterns on the Addition Table	Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.	1 day
Lesson 9.2 Use Mental Math Strategies for Addition and Subtraction	<ul> <li>Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> </ul>	1 day
Lesson 9.3 Use Properties to Add	<ul> <li>Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> </ul>	1 day
Lesson 9.4 Use Mental Math to Assess Reasonableness	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.	1 day
Lesson 9.5 Round to the Nearest Ten or Hundred	O Use place value understanding to round whole numbers to the nearest 10 or 100.	1 day
Lesson 9.6 Use Estimation with Sums and Differences	Use place value understanding to round whole numbers to the nearest 10 or 100.	1 day
Module 10: Addition and Subtraction Wi	thin 1,000	
Lesson 10.1 Use Expanded Form to Add	<ul> <li>Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> </ul>	1 day
Lesson 10.2 Use Place Value to Add	<ul> <li>Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> </ul>	2 days
Lesson 10.3 Combine Place Values to Subtract	<ul> <li>Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> </ul>	1 day
Lesson 10.4 Use Place Value to Subtract	<ul> <li>Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> </ul>	2 days
Lesson 10.5 Choose a Strategy to Add or Subtract	<ul> <li>Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</li> </ul>	1 day

Lesson	Mathematics Standards, Grade 3	Pacing
Module 10: Addition and subtraction Wit	thin 1,000	
Lesson 10.6 Model and Solve Two-Step Problems	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.	2 days
Module 11: Understand Perimeter		
Lesson 11.1 Describe Perimeter	O 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.	1 day
Lesson 11.2 Find Perimeter	O 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.	1 day
Lesson 11.3 Find Unknown Side Lengths	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.	1 day
Lesson 11.4 Represent Rectangles with the Same Area and Different Perimeters	O 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.	1 day
Lesson 11.5 Represent Rectangles with the Same Perimeter and Different Areas	O 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.	1 day
Module 12: Time Measurement and Inter	rvals	
Lesson 12.1 Tell and Write Time to the Minute	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	1 day
Lesson 12.2 Use a.m. and p.m. to Describe Time	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	1 day
Lesson 12.3 Measure Time Intervals	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	1 day

Lesson	Mathematics Standards, Grade 3	Pacing
Lesson 12.4 Find Start and End Times	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	1 day
Lesson 12.5 Solve Time Interval Problems	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	1 day
Unit 4 FRACTIONS		
Module 13: Understand Fractions as Nun	nbers	
Lesson 13.1 Describe Equal Parts of a Whole	Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size 1/b.	1 day
	Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	
Lesson 13.2 Represent and Name Unit Fractions	Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size 1/b.	1 day
	Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	
Lesson 13.3 Represent and Name Fractions of a Whole	Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into $b$ equal parts; understand a fraction $a/b$ as the quantity formed by $a$ parts of size $1/b$ .	1 day
Lesson 13.4 Represent and Name Fractions on a Number Line	Represent a fraction 1/b on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts.  Recognize that each part has size 1/b and that the endpoint of the part based at 0 locates the number 1/b on the number line.	1 day
	Represent a fraction $a/b$ on a number line diagram by marking off $a$ lengths $1/b$ from 0. Recognize that the resulting interval has size $a/b$ and that its endpoint locates the number $a/b$ on the number line.	
Lesson 13.5 Express Whole Numbers as Fractions	Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	1 day
	Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.	
Lesson 13.6 Represent and Name Fractions Greater Than 1	Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size 1/b.	1 day
	Represent a fraction $a/b$ on a number line diagram by marking off $a$ lengths $1/b$ from 0. Recognize that the resulting interval has size $a/b$ and that its endpoint locates the number $a/b$ on the number line.	

Lesson	Mathematics Standards, Grade 3	Pacing
Module 13: Understand Fractions as Nun	nbers	
Lesson 13.7 Use Fractions to Measure Lengths	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.	1 day
Module 14: Relate Shapes, Fractions, and	l Area	
Lesson 14.1 Relate Fractions and Area	Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	1 day
Lesson 14.2 Partition Shapes into Equal Areas	Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	1 day
Lesson 14.3 Use Unit Fractions to Describe Area	Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	1 day
Module 15: Compare Fractions		
Lesson 15.1 Compare Fractions Using Concrete and Visual Models	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.	1 day
	Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	
Lesson 15.2 Compare Fractions with the Same Denominator	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.	1 day
Lesson 15.3 Compare Fractions with the Same Numerator	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.	1 day
Lesson 15.4 Use Reasoning Strategies to Compare Fractions	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.	1 day
Module 16: Understand Equivalent Fractions		
Lesson 16.1 Represent Equivalent Fractions with Smaller Parts	<ul> <li>Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.</li> <li>Recognize and generate simple equivalent fractions, e.g., 1/2 = 2/4, 4/6 = 2/3. Explain why the fractions are equivalent, e.g., by using a visual fraction model.</li> </ul>	1 day

Lesson	Mathematics Standards, Grade 3	Pacing
Lesson 16.2 Represent Equivalent Fractions with Larger Parts	Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	1 day
	Recognize and generate simple equivalent fractions, e.g., $1/2 = 2/4$ , $4/6 = 2/3$ . Explain why the fractions are equivalent, e.g., by using a visual fraction model.	
Lesson 16.3 Recognize and Generate Equivalent Fractions	Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	1 day
	Recognize and generate simple equivalent fractions, e.g., $1/2 = 2/4$ , $4/6 = 2/3$ . Explain why the fractions are equivalent, e.g., by using a visual fraction model.	
Unit 5 MEASUREMENT AND DATA		
Module 17: Liquid Volume and Mass		
Lesson 17.1 Estimate and Measure Liquid Volume	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.	1 day
Lesson 17.2 Estimate and Measure Mass	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.	1 day
Lesson 17.3 Solve Problems About Liquid Volume and Mass	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.	2 days
Module 18: Represent and Interpret Data		
Lesson 18.1 Use Picture Graphs	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.	1 day
	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.	
Lesson 18.2 Make Picture Graphs	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.	1 day
Lesson 18.3 Use Bar Graphs	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.	1 day

Lesson	Mathematics Standards, Grade 3	Pacing	
Module 18: Represent and Interpret Data			
Lesson 18.4 Make Bar Graphs	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.	1 day	
Lesson 18.5 Use Line Plots to Display Measurement Data	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.	1 day	
Lesson 18.6 Make Line Plots to Display Measurement Data	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.	1 day	
Lesson 18.7 Solve One- and Two-Step Problems Using Data	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.	1 day	
Unit 6 GEOMETRY			
Module 19: Define Two-Dimensional Sha	pes		
Lesson 19.1 Describe Shapes	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.	1 day	
Lesson 19.2 Describe Angles in Shapes	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.	1 day	
Lesson 19.3 Describe Sides of Shapes	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.	1 day	
Lesson 19.4 Define Quadrilaterals	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.	1 day	

Lesson	Mathematics Standards, Grade 3	Pacing
Module 20: Categorize Two-Dimensiona	Shapes	
Lesson 20.1 Draw Quadrilaterals	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.	1 day
Lesson 20.2 Categorize Quadrilaterals	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.	1 day
Lesson 20.3 Categorize Plane Shapes	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.	1 day