

Pacing Guide

	Build Understanding
	Connect Concepts and Skills
	Apply and Practice

Lesson	Mathematics Standards, Grade 5	Pacing
Unit 1 WHOLE NUMBERS, EXPRESSIONS, AND VOLUME		
Module 1: Whole Number Place Value and Multiplication		
 Lesson 1.1 Recognize the 10 to 1 Relationship Among Place-Value Positions	 Recognize 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 $\frac{1}{10}$ of what it represents in the place to its left.	1 day
 Lesson 1.2 Use Powers of 10 and Exponents	 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	1 day
 Lesson 1.3 Use a Pattern to Multiply by Multiples of 10, 100, and 1,000	 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	1 day
 Lesson 1.4 Multiply by 1-Digit Numbers	 Fluently multiply multi-digit whole numbers using the standard algorithm.	1 day
 Lesson 1.5 Multiply by Multi-Digit Numbers	 Fluently multiply multi-digit whole numbers using the standard algorithm.	1 day
 Lesson 1.6 Develop Multiplication Fluency	 Fluently multiply multi-digit whole numbers using the standard algorithm.	1 day
Module 2: Understand Division of Whole Numbers		
 Lesson 2.1 Relate Multiplication to Division	 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	1 day
 Lesson 2.2 Represent Division with 2-Digit Divisors	 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	2 days
 Lesson 2.3 Estimate with 2-Digit Divisors	 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	1 day
 Lesson 2.4 Use Partial Quotients	 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	1 day

- Major
- Supporting
- Additional

In addition to the core instructional pacing below, 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 5 is 162 days.

Lesson	Mathematics Standards, Grade 5	Pacing
Module 3: Practice Division of Whole Numbers		
Lesson 3.1 Divide by 2-Digit Divisors	■ Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	1 day
Lesson 3.2 Interpret the Remainder	■ Interpret a fraction as division of the numerator by the denominator ($a/b = a \div b$). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	1 day
	■ Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	
Lesson 3.3 Adjust Quotients	■ Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	1 day
Lesson 3.4 Practice with Division	■ Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	1 day
Module 4: Expressions		
Lesson 4.1 Write Numerical Expressions	○ Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	1 day
	○ Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.	
Lesson 4.2 Interpret Numerical Expressions	○ Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.	1 day
Lesson 4.3 Evaluate Numerical Expressions	○ Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	1 day
Lesson 4.4 Use Grouping Symbols	○ Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	1 day
Module 5: Volume		
Lesson 5.1 Use Unit Cubes to Build Solid Figures	■ A cube with side length 1 unit, called a “unit cube,” is said to have “one cubic unit” of volume, and can be used to measure volume.	1 day

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Module 5: Volume		
 Lesson 5.2 Understand Volume	A cube with side length 1 unit, called a “unit cube,” is said to have “one cubic unit” of volume, and can be used to measure volume.	1 day
	A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.	
	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	
 Lesson 5.3 Estimate Volume	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	1 day
 Lesson 5.4 Find Volume of Right Rectangular Prisms	Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.	2 days
	Apply the formulas $V = l \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems.	
 Lesson 5.5 Apply Volume Formulas	Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.	1 day
	Apply the formulas $V = l \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems.	
 Lesson 5.6 Find Volume of Composed Figures	Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems.	2 days
Unit 2 ADD AND SUBTRACT FRACTIONS AND MIXED NUMBERS		
Module 6: Understand Addition and Subtraction of Fractions with Unlike Denominators		
 Lesson 6.1 Represent Fraction Sums and Differences	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	1 day
 Lesson 6.2 Represent Addition with Different-Sized Parts	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	1 day

Lesson	Mathematics Standards, Grade 5	Pacing
Lesson 6.3 Represent Subtraction with Different-Sized Parts	■ Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	1 day
Lesson 6.4 Rewrite Fractions with a Common Denominator	■ Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	1 day
Module 7: Add and Subtract Fractions and Mixed Numbers with Unlike Denominators		
Lesson 7.1 Use Benchmarks and Number Sense to Estimate	■ Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	1 day
Lesson 7.2 Assess Reasonableness of Fraction Sums and Differences	■ Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	1 day
Lesson 7.3 Assess Reasonableness of Mixed Number Sums and Differences	■ Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	1 day
	■ Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	
Lesson 7.4 Rename Mixed Numbers to Subtract	■ Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	2 days
Lesson 7.5 Apply Properties of Addition	■ Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	1 day
Lesson 7.6 Practice Addition and Subtraction Using Equations	■ Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	1 day

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Lesson	Mathematics Standards, Grade 5	Pacing
Unit 3 MULTIPLY FRACTIONS AND MIXED NUMBERS		
Module 8: Understand Multiplication of Fractions		
 Lesson 8.1 Explore Groups of Equal Shares to Show Multiplication	Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$.	1 day
 Lesson 8.2 Represent Multiplication of Whole Numbers by Fractions	Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$.	2 days
 Lesson 8.3 Represent Multiplication with Unit Fractions	Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$.	1 day
 Lesson 8.4 Represent Multiplication of Fractions	Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$.	1 day
	Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	
 Lesson 8.5 Use Representations of Area to Develop Procedures	Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$.	2 days
	Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.	
 Lesson 8.6 Interpret Fraction Multiplication as Scaling	Interpret multiplication as scaling (resizing), by: Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	1 day
	Interpret multiplication as scaling (resizing), by: Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of multiplying a/b by 1.	
 Lesson 8.7 Multiply Fractions	Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$.	1 day
Module 9: Understand and Apply Multiplication of Mixed Numbers		
 Lesson 9.1 Explore Area and Mixed Numbers	Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.	1 day
	Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	

Lesson	Mathematics Standards, Grade 5	Pacing
Lesson 9.2 Multiply Mixed Numbers	Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	1 day
Lesson 9.3 Practice Multiplication with Fractions and Mixed Numbers	Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$. Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	1 day
Lesson 9.4 Apply Fraction Multiplication to Find Area	Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas. Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	1 day
Unit 4 DIVIDE FRACTIONS AND CONVERT CUSTOMARY UNITS		
Module 10: Understand Division with Whole Numbers and Unit Fractions		
Lesson 10.1 Interpret a Fraction as Division	Interpret a fraction as division of the numerator by the denominator ($a/b = a \div b$). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	1 day
Lesson 10.2 Represent and Find the Size of Equal Parts	Interpret division of a unit fraction by a non-zero whole number, and compute such quotients.	1 day
Lesson 10.3 Use Representations of Division of Unit Fractions by Whole Numbers	Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.	2 days
Lesson 10.4 Represent and Find the Number of Equal-Sized Parts	Interpret division of a whole number by a unit fraction, and compute such quotients.	1 day
Lesson 10.5 Use Representations of Division of Whole Numbers by Unit Fractions	Interpret division of a whole number by a unit fraction, and compute such quotients. Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.	2 days
Module 11: Divide with Whole Numbers and Unit Fractions		
Lesson 11.1 Relate Multiplication and Division of Fractions	Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. Interpret division of a whole number by a unit fraction, and compute such quotients.	1 day

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Lesson	Mathematics Standards, Grade 5	Pacing
Module 11: Divide with Whole Numbers and Unit Fractions		
Lesson 11.2 Divide Whole Numbers by Unit Fractions	Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.	1 day
Lesson 11.3 Interpret and Solve Division of a Whole Number by a Unit Fraction	Interpret division of a whole number by a unit fraction, and compute such quotients.	1 day
	Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.	
Lesson 11.4 Divide Unit Fractions by Whole Numbers	Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.	1 day
Lesson 11.5 Interpret and Solve Division of a Unit Fraction by a Whole Number	Interpret division of a unit fraction by a non-zero whole number, and compute such quotients.	1 day
	Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.	
Lesson 11.6 Solve Division Problems Using Visual Models and Equations	Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.	1 day
Module 12: Customary Measurement		
Lesson 12.1 Convert Customary Measurements	Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	2 days
Lesson 12.2 Solve Multistep Customary Measurement Problems	Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	1 day
Lesson 12.3 Represent and Interpret Measurement Data in Line Plots	Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Use operations on fractions for this grade to solve problems involving information presented in line plots.	1 day
Lesson 12.4 Convert Time and Find Elapsed Time	Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	1 day
Unit 5 ADD AND SUBTRACT DECIMALS		
Module 13: Decimal Place Value		
Lesson 13.1 Understand Thousandths	Recognize 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 $\frac{1}{10}$ of what it represents in the place to its left.	1 day
Lesson 13.2 Read and Write Decimals to Thousandths	Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (\frac{1}{10}) + 9 \times (\frac{1}{100}) + 2 \times (\frac{1}{1000})$.	1 day

Lesson	Mathematics Standards, Grade 5	Pacing
● Lesson 13.3 Round Decimals	■ Use place value understanding to round decimals to any place.	1 day
● Lesson 13.4 Compare and Order Decimals	■ Compare two decimals to thousandths based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.	1 day
Module 14: Add and Subtract Decimals		
● Lesson 14.1 Represent Decimal Addition	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
● Lesson 14.2 Represent Decimal Subtraction	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
● Lesson 14.3 Assess Reasonableness of Sums and Differences	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
● Lesson 14.4 Add Decimals	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
● Lesson 14.5 Subtract Decimals	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
● Lesson 14.6 Use Strategies and Reasoning to Add and Subtract	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day

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Lesson	Mathematics Standards, Grade 5	Pacing
Unit 6 MULTIPLY DECIMALS		
Module 15: Multiply Decimals and Whole Numbers		
 Lesson 15.1 Understand Decimal Multiplication Patterns	 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	2 days
	 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	
 Lesson 15.2 Represent Multiplication with Decimals and Whole Numbers	 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
 Lesson 15.3 Assess Reasonableness of Products	 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
 Lesson 15.4 Multiply Decimals by 1-Digit Whole Numbers	 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	2 days
 Lesson 15.5 Multiply Decimals by 2-Digit Whole Numbers	 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
 Lesson 15.6 Solve Problems Using Bar Models	 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
Module 16: Multiply Decimals		
 Lesson 16.1 Represent Decimal Multiplication	 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day

Lesson	Mathematics Standards, Grade 5	Pacing
Lesson 16.2 Multiply Decimals	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
Lesson 16.3 Multiply Decimals with Zeros in the Product	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
Unit 7 DIVIDE DECIMALS AND CONVERT METRIC UNITS		
Module 17: Divide Decimals		
Lesson 17.1 Understand Decimal Division Patterns	■ Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	2 days
Lesson 17.2 Represent Division of Decimals by Whole Numbers	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
Lesson 17.3 Assess Reasonableness of Quotients	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
Lesson 17.4 Divide Decimals by Whole Numbers	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
Lesson 17.5 Represent Decimal Division	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	2 days
Lesson 17.6 Divide Decimals	■ Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day

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Module 17: Divide Decimals		
 Lesson 17.7 Write Zeros in the Dividend	 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	1 day
Module 18: Customary and Metric Measurement		
 Lesson 18.1 Understand Metric Conversions	 Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	1 day
 Lesson 18.2 Solve Customary and Metric Conversion Problems	 Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	1 day
 Lesson 18.3 Solve Multistep Measurement Problems	 Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	1 day
Unit 8 GRAPHS, PATTERNS, AND GEOMETRY		
Module 19: Graphs and Patterns		
 Lesson 19.1 Describe a Coordinate System	 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate).	1 day
 Lesson 19.2 Understand Ordered Pairs	 Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	1 day
 Lesson 19.3 Use Ordered Pairs to Represent Problems	 Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	1 day
 Lesson 19.4 Generate and Identify Numerical Patterns	 Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.	1 day
 Lesson 19.5 Identify and Graph Relationships and Patterns	 Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.	1 day

Lesson	Mathematics Standards, Grade 5	Pacing
Module 20: Classify Two-Dimensional Figures		
Lesson 20.1 Identify and Classify Polygons	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	1 day
	Classify two-dimensional figures in a hierarchy based on properties.	
Lesson 20.2 Classify and Organize Triangles	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	1 day
	Classify two-dimensional figures in a hierarchy based on properties.	
Lesson 20.3 Classify and Organize Quadrilaterals	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	1 day
	Classify two-dimensional figures in a hierarchy based on properties.	
Lesson 20.4 Use Venn Diagrams to Classify Two-Dimensional Figures	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	1 day
	Classify two-dimensional figures in a hierarchy based on properties.	