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GRADES 3–5

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Unit 1: Understand Multiplication and Area		
	Lessons	
Module 1—Understand Multiplication	1.1	Count Equal Groups
	1.2	Relate Addition and Multiplication
	1.3	Represent Multiplication with Arrays
	1.4	Understand the Commutative Property of Multiplication
	1.5	Represent Multiplication with Number Lines
	1.6	Represent Multiplication with Bar Models
	Lessons	
Module 2—Relate Multiplication and Area	2.1	Understand Area by Counting Unit Squares
	2.2	Measure Area by Counting Unit Squares
	2.3	Relate Area to Addition and Multiplication
	2.4	Solve Problems with Area
	2.5	Find the Area of Combined Rectangles
Unit 2: Multiplication and Division		
	Lessons	
Module 3—Understand Multiplication Strategies	3.1	Multiply with 2 and 4
	3.2	Multiply with 5 and 10
	3.3	Multiply with 3 and 6
	Lessons	
Module 4—Apply Multiplication Properties as Strategies	4.1	Understand the Identity and Zero Properties of Multiplication
	4.2	Understand the Distributive Property
	4.3	Understand the Associative Property of Multiplication
	4.4	Multiply with 7
	4.5	Multiply with 8
	4.6	Multiply with 9
	4.7	Identify Number Patterns on the Multiplication Table
	Lessons	
Module 5—Multiplication with Multiples of 10	5.1	Use the Distributive Property
	5.2	Use the Associative Property of Multiplication
	5.3	Use Place Value Strategies to Multiply with Multiples of 10
	5.4	Multiply Multiples of 10 by 1 Digit

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	Lessons	
Module 6—Understand Division	6.1	Represent Division
	6.2	Separate Objects into Equal Groups
	6.3	Find the Number of Equal Groups
	6.4	Relate Subtraction and Division
	6.5	Represent Division with Arrays
	6.6	Represent Division with Bar Models
	6.7	Apply Division Rules for 1 and 0
	Lessons	
Module 7—Relate Multiplication and Division	7.1	Relate Multiplication and Division
	7.2	Write Related Facts
	7.3	Multiply and Divide with 2, 4, and 8
	7.4	Multiply and Divide with 5 and 10
	7.5	Multiply and Divide with 3 and 6
	7.6	Multiply and Divide with 7 and 9
	7.7	Build Fluency with Multiplication and Division
	Lessons	
Module 8—Apply Multiplication and Division	8.1	Identify and Extend Patterns
	8.2	Find Unknown Factors and Numbers
	8.3	Use Multiplication and Division to Solve Problem Situations
	8.4	Solve Two-Step Problems
	8.5	Practice with One- and Two-Step Problems
Unit 3: Addition and Subtraction Strategies and Applications		
	Lessons	
Module 9—Addition and Subtraction Strategies	9.1	Identify Number Patterns on the Addition Table
	9.2	Use Mental Math Strategies for Addition and Subtraction
	9.3	Use Properties to Add
	9.4	Use Mental Math to Assess Reasonableness
	9.5	Round to the Nearest Ten or Hundred
	9.6	Use Estimation with Sums and Differences

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	Lessons	
Module 10—Addition and Subtraction Within 1,000	10.1	Use Expanded Form to Add
	10.2	Use Place Value to Add
	10.3	Combine Place Values to Subtract
	10.4	Use Place Value to Subtract
	10.5	Choose a Strategy to Add or Subtract
	10.6	Model and Solve Two-Step Problems
	Lessons	
Module 11—Understand Perimeter	11.1	Describe Perimeter
	11.2	Find Perimeter
	11.3	Find Unknown Side Lengths
	11.4	Represent Rectangles with the Same Area and Different Perimeters
	11.5	Represent Rectangles with the Same Perimeter and Different Areas
	Lessons	
Module 12—Time Measurement and Intervals	12.1	Tell and Write Time to the Minute
	12.2	Use a.m. and p.m. to Describe Time
	12.3	Measure Time Intervals
	12.4	Find Start and End Times
	12.5	Solve Time Interval Problems
Unit 4: Fractions		
	Lessons	
Module 13—Understand Fractions as Numbers	13.1	Describe Equal Parts of a Whole
	13.2	Represent and Name Unit Fractions
	13.3	Represent and Name Fractions of a Whole
	13.4	Represent and Name Fractions on a Number Line
	13.5	Express Whole Numbers as Fractions
	13.6	Represent and Name Fractions Greater Than 1
	13.7	Use Fractions to Measure Lengths
	Lessons	
Module 14—Relate Shapes, Fractions, and Area	14.1	Relate Fractions and Area
	14.2	Partition Shapes into Equal Areas
	14.3	Use Unit Fractions to Describe Area
	Lessons	
Module 15—Compare Fractions	15.1	Compare Fractions Using Concrete and Visual Models
	15.2	Compare Fractions with the Same Denominator
	15.3	Compare Fractions with the Same Numerator
	15.4	Use Reasoning Strategies to Compare Fractions

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	Lessons	
Module 16—Understand Equivalent Fractions	16.1	Represent Equivalent Fractions with Smaller Parts
	16.2	Represent Equivalent Fractions with Larger Parts
	16.3	Recognize and Generate Equivalent Fractions
Unit 5: Measurement and Data		
	Lessons	
Module 17—Liquid Volume and Mass	17.1	Estimate and Measure Liquid Volume
	17.2	Estimate and Measure Mass
	17.3	Solve Problems About Liquid Volume and Mass
	Lessons	
Module 18—Represent and Interpret Data	18.1	Use Picture Graphs
	18.2	Make Picture Graphs
	18.3	Use Bar Graphs
	18.4	Make Bar Graphs
	18.5	Use Line Plots to Display Measurement Data
	18.6	Make Line Plots to Display Measurement Data
	18.7	Solve One- and Two-Step Problems Using Data
Unit 6: Geometry		
	Lessons	
Module 19—Define Two-Dimensional Shapes	19.1	Describe Shapes
	19.2	Describe Angles in Shapes
	19.3	Describe Sides of Shapes
	19.4	Define Quadrilaterals
	Lessons	
Module 20—Categorize Two-Dimensional Shapes	20.1	Draw Quadrilaterals
	20.2	Categorize Quadrilaterals
	20.3	Categorize Plane Shapes

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Unit 1: Place Value and Whole Number Operations		
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Module 1—Place Value of Whole Numbers	1.1	Understand Place Value Relationships
	1.2	Read and Write Numbers
	1.3	Regroup and Rename Numbers
	1.4	Compare and Order Numbers
	1.5	Use Place Value Understanding to Round Numbers
	Lessons	
Module 2—Addition and Subtraction of Whole Numbers	2.1	Add Whole Numbers and Assess Reasonableness
	2.2	Subtract Whole Numbers and Assess Reasonableness
	2.3	Use Addition and Subtraction to Solve Comparison Problems
	2.4	Apply the Perimeter Formula for Rectangles
Unit 2: Multiplication and Division Problems		
	Lessons	
Module 3—Interpret and Solve Problem Situations	3.1	Explore Multiplicative Comparisons
	3.2	Distinguish Between Multiplicative and Additive Comparisons
	3.3	Use Division to Solve Multiplicative Comparison Problems
	3.4	Use Comparisons to Solve Problem Situations
	3.5	Solve Multistep Problems with Multiplication and Division
	Lessons	
Module 4—Mental Math and Estimation Strategies	4.1	Explore Multiplication Patterns with Tens, Hundreds, and Thousands
	4.2	Explore Division Patterns with Tens, Hundreds, and Thousands
	4.3	Estimate Products by 1-Digit Numbers
	4.4	Estimate Quotients Using Compatible Numbers
	4.5	Use Mental Math Strategies for Multiplication and Division
	Lessons	
Module 5—Multiply by 1-Digit Numbers	5.1	Represent Multiplication
	5.2	Use Area Models and the Distributive Property to Multiply
	5.3	Multiply Using Expanded Form
	5.4	Multiply Using Partial Products
	5.5	Use Place Value to Multiply 2-Digit Numbers
	5.6	Multiply 3-Digit and 4-Digit Numbers
	5.7	Use Equations to Solve Multistep Problems

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	Lessons	
Module 6—Understand Division by 1-Digit Numbers	6.1	Represent Division
	6.2	Investigate Remainders
	6.3	Interpret Remainders
	6.4	Use Area Models and the Distributive Property to Divide
	6.5	Divide Using Repeated Subtraction
	6.6	Divide Using Partial Quotients
	Lessons	
Module 7—Divide by 1-Digit Numbers	7.1	Represent Division with Regrouping
	7.2	Use Place Value to Divide
	7.3	Divide by 1-Digit Numbers
	7.4	Solve Multistep Multiplication and Division Problems
Unit 3: Extend and Apply Multiplication		
	Lessons	
Module 8—Multiply by 2-Digit Numbers	8.1	Multiply with Tens
	8.2	Estimate Products
	8.3	Relate Area Models and Partial Products
	8.4	Multiply Using Partial Products
	8.5	Multiply with Regrouping
	8.6	Choose a Multiplication Strategy
	8.7	Solve Multistep Problems and Assess Reasonableness
	Lessons	
Module 9—Apply Multiplication to Area	9.1	Apply the Area Formula to Rectangles
	9.2	Find the Area of Combined Rectangles
	9.3	Find Unknown Measures
	9.4	Solve Area Problems
Unit 4: Fractions and Decimals		
	Lessons	
Module 10—Algebraic Thinking: Number Theory	10.1	Investigate Factors
	10.2	Identify Factors
	10.3	Generate Multiples Using Factors
	10.4	Identify Prime and Composite Numbers
	10.5	Generate and Analyze Number Patterns



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	Lessons	
Module 11—Fraction Equivalence and Comparison	11.1	Compare Fractions Using Visual Models
	11.2	Compare Fractions Using Benchmarks
	11.3	Explain Fraction Equivalence Using Visual Models
	11.4	Generate Equivalent Fractions
	11.5	Use Common Multiples to Write Equivalent Fractions
	11.6	Compare Fractions Using Common Numerators and Denominators
	11.7	Use Comparisons to Order Fractions
	Lessons	
Module 12—Relate Fractions and Decimals	12.1	Represent Tenths as Fractions and Decimals
	12.2	Represent Hundredths as Fractions and Decimals
	12.3	Identify Equivalent Fractions and Decimals
	12.4	Compare Decimals
	12.5	Relate Fractions, Decimals, and Money
	12.6	Solve Multistep Money Problems
	Lessons	
Module 13—Use Fractions to Understand Angles	13.1	Explore Lines, Rays, and Angles
	13.2	Explore Angles
	13.3	Relate Angles to Fractional Parts of a Circle
	13.4	Relate Degrees to Fractional Parts of a Circle
	13.5	Measure and Draw Angles Using a Protractor
	13.6	Join and Separate Angles
	13.7	Find Unknown Angle Measures
Unit 5: Operations with Fractions		
	Lessons	
Module 14—Understand Addition and Subtraction of Fractions with Like Denominators	14.1	Decompose Fractions into Sums
	14.2	Join Parts of a the Same Whole
	14.3	Represent Addition of Fractions
	14.4	Separate Parts of the Same Whole
	14.5	Represent Subtraction of Fractions
	14.6	Add Fractional Parts of 10 and 100
	Lessons	
Module 15—Add and Subtract Fractions and Mixed Numbers with Like Denominators	15.1	Add and Subtract Fractions to Solve Problems
	15.2	Rename Fractions and Mixed Numbers
	15.3	Add and Subtract Mixed Numbers to Solve Problems
	15.4	Rename Mixed Numbers to Subtract
	15.5	Apply Properties of Addition to Add Fractions and Mixed Numbers
	15.6	Practice Solving Fraction Problems

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	Lessons	
Module 16—Multiply Fractions by Whole Numbers	16.1	Understand Multiples of Unit Fractions
	16.2	Find Multiples of Fractions
	16.3	Represent Multiplication of a Fraction by a Whole Number
	16.4	Solve Problems Using Multiplication of a Fraction or Mixed Number by a Whole Number
Unit 6: Two-Dimensional Figures and Symmetry		
	Lessons	
Module 17—Two-Dimensional Figures	17.1	Identify and Draw Perpendicular and Parallel Lines
	17.2	Identify and Classify Triangles by Angles
	17.3	Identify and Classify Triangles by Sides
	17.4	Identify and Classify Quadrilaterals
	17.5	Measure and Draw Angles of Two-Dimensional Figures
	Lessons	
Module 18—Symmetry and Patterns	18.1	Recognize Lines of Symmetry
	18.2	Identify and Draw Lines of Symmetry
	18.3	Generate and Identify Shape Patterns
Unit 7: Measurement, Data, and Time		
	Lessons	
Module 19—Relative Sizes of Customary Measurement Units	19.1	Identify Customary Measurement Benchmarks
	19.2	Compare Customary Units of Length
	19.3	Compare Customary Units of Weight
	19.4	Compare Customary Units of Liquid Volume
	19.5	Represent and Interpret Measurement Data in Line Plots
	Lessons	
Module 20—Relative Sizes of Metric Measurement Units	20.1	Identify Metric Measurement Benchmarks
	20.2	Compare Metric Units of Length
	20.3	Compare Metric Units of Mass and Liquid Volume
	20.4	Solve Problems Using Measurements
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Module 21—Solve Problems with Time and Measurement	21.1	Compare Units of Time
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	21.4	Practice with Mixed Measures

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	Lessons	
Module 1—Whole Number Place Value and Multiplication	1.1	Recognize the 10 to 1 Relationship Among Place-Value Positions
	1.2	Use Powers of 10 and Exponents
	1.3	Use a Pattern to Multiply by Multiples of 10, 100, and 1,000
	1.4	Multiply by 1-Digit Numbers
	1.5	Multiply by Multi-Digit Numbers
	1.6	Develop Multiplication Fluency
	Lessons	
Module 2—Understand Division of Whole Numbers	2.1	Relate Multiplication to Division
	2.2	Represent Division with 2-Digit Divisors
	2.3	Estimate with 2-Digit Divisors
	2.4	Use Partial Quotients
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Module 3—Practice Division of Whole Numbers	3.1	Divide by 2-Digit Divisors
	3.2	Interpret the Remainder
	3.3	Adjust Quotients
	3.4	Practice with Division
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Module 4—Expressions	4.1	Write Numerical Expressions
	4.2	Interpret Numerical Expressions
	4.3	Evaluate Numerical Expressions
	4.4	Use Grouping Symbols
	Lessons	
Module 5—Volume	5.1	Use Unit Cubes to Build Solid Figures
	5.2	Understand Volume
	5.3	Estimate Volume
	5.4	Find Volume of Right Rectangular Prisms
	5.5	Apply Volume Formulas
	5.6	Find Volume of Composed Figures
Unit 2: Add and Subtract Fractions and Mixed Numbers		
	Lessons	
Module 6—Understand Addition and Subtraction of Fractions with Unlike Denominators	6.1	Represent Fraction Sums and Differences
	6.2	Represent Addition with Different-Sized Parts
	6.3	Represent Subtraction with Different-Sized Parts
	6.4	Rewrite Fractions with a Common Denominator

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	Lessons	
Module 7—Add and Subtract Fractions and Mixed Numbers with Unlike Denominators	7.1	Use Benchmarks and Number Sense to Estimate
	7.2	Assess Reasonableness of Fraction Sums and Differences
	7.3	Assess Reasonableness of Mixed Number Sums and Differences
	7.4	Rename Mixed Numbers to Subtract
	7.5	Apply Properties of Addition
	7.6	Practice Addition and Subtraction Using Equations
Unit 3: Multiply Fractions and Mixed Numbers		
	Lessons	
Module 8—Understand Multiplication of Fractions	8.1	Explore Groups of Equal Shares to Show Multiplication
	8.2	Represent Multiplication of Whole Numbers by Fractions
	8.3	Represent Multiplication with Unit Fractions
	8.4	Represent Multiplication of Fractions
	8.5	Use Representations of Area to Develop Procedures
	8.6	Interpret Fraction Multiplication as Scaling
	8.7	Multiply Fractions
	Lessons	
Module 9—Understand and Apply Multiplication of Mixed Numbers	9.1	Explore Area and Mixed Numbers
	9.2	Multiply Mixed Numbers
	9.3	Practice Multiplication with Fractions and Mixed Numbers
	9.4	Apply Fraction Multiplication to Find Area
Unit 4: Divide Fractions and Convert Customary Units		
	Lessons	
Module 10—Understand Division with Whole Numbers and Unit Fractions	10.1	Interpret a Fraction as Division
	10.2	Represent and Find the Size of Equal Parts
	10.3	Use Representations of Division of Unit Fractions by Whole Numbers
	10.4	Represent and Find the Number of Equal-Sized Parts
	10.5	Use Representations of Division of Whole Numbers by Unit Fractions



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	Lessons	
Module 11—Divide with Whole Numbers and Unit Fractions	11.1	Relate Multiplication and Division of Fractions
	11.2	Divide Whole Numbers by Unit Fractions
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	11.4	Divide Unit Fractions by Whole Numbers
	11.5	Interpret and Solve Division of a Unit Fraction by a Whole Number
	11.6	Solve Division Problems Using Visual Models and Equations
	Lessons	
Module 12—Customary Measurement	12.1	Convert Customary Measurements
	12.2	Solve Multistep Customary Measurement Problems
	12.3	Represent and Interpret Measurement Data in Line Plots
	12.4	Convert Time and Find Elapsed Time
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	Lessons	
Module 13—Decimal Place Value	13.1	Understand Thousandths
	13.2	Read and Write Decimals to Thousandths
	13.3	Round Decimals
	13.4	Compare and Order Decimals
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Module 14—Add and Subtract Decimals	14.1	Represent Decimal Addition
	14.2	Represent Decimal Subtraction
	14.3	Assess Reasonableness of Sums and Differences
	14.4	Add Decimals
	14.5	Subtract Decimals
	14.6	Use Strategies and Reasoning to Add and Subtract
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	15.2	Represent Multiplication with Decimals and Whole Numbers
	15.3	Assess Reasonableness of Products
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	15.5	Multiply Decimals by 2-Digit Whole Numbers
	15.6	Solve Problems Using Bar Models

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	Lessons	
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	16.3	Multiply Decimals with Zeros in the Product
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	Lessons	
Module 17—Divide Decimals	17.1	Understand Decimal Division Patterns
	17.2	Represent Division of Decimals by Whole Numbers
	17.3	Assess Reasonableness of Quotients
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	17.5	Represent Decimal Division
	17.6	Divide Decimals
	17.7	Write Zeros in the Dividend
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Module 18—Customary and Metric Measurement	18.1	Understand Metric Conversions
	18.2	Solve Customary and Metric Conversion Problems
	18.3	Solve Multistep Measurement Problems
Unit 8: Graphs, Patterns, and Geometry		
	Lessons	
Module 19—Graphs and Patterns	19.1	Describe a Coordinate System
	19.2	Understand Ordered Pairs
	19.3	Use Ordered Pairs to Represent Problems
	19.4	Generate and Identify Numerical Patterns
	19.5	Identify and Graph Relationships and Patterns
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Module 20—Classify Two-Dimensional Figures	20.1	Identify and Classify Polygons
	20.2	Classify and Organize Triangles
	20.3	Classify and Organize Quadrilaterals
	20.4	Use Venn Diagrams to Classify Two-Dimensional Figures



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