Pre-Algebra Lessons

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CHAPTER 1: WHOLE NUMBERS

Unit 1: Number Concepts	A: Place Value
	B: Comparing Numbers
	C: Rounding
Unit 2: Addition and Subtraction	A: Addition
	B: Subtraction
	C: Estimating Sums and Differences
	D: Addition and Subtraction Word Problems
Unit 3: Multiplication and Division	A: Multiplication
	B: Exponents
	C: Division
	D: Estimating Products and Quotients
	E: Multiplication and Division Word Problems
Unit 4: Properties and Rules	A: Order of Operations
	B: Grouping Symbols
	C: Variables
	D: Addition Properties
	E: Multiplication Properties

CHAPTER 2: INTEGERS

Unit 1: Integers and The Number Line	A: Graphing and Writing Integers
	B: Comparing Integers
	C: Opposites and Absolute Value
Unit 2: Integer Operations	A: Addition
	B: Subtraction
	C: Multiplication
	D: Division
	E: Order of Operations
	F: Word Problems
Unit 3: Absolute Value Operations	A: Addition and Subtraction
	B: Multiplication and Division

CHAPTER 3: FRACTIONS

Unit 1: Factors and Multiples	A: Divisibility Rules
	B: Factors and Primes
	C: Prime Factorization
	D: Multiples and Least Common Multiples
	E: Greatest Common Factor
Unit 2: Fractions and Mixed Numbers	A: Introduction to Fractions
	B: Equivalent Fractions (Part I)
	C: Lowest Terms
	D: Equivalent Fractions (Part II)
	E: Improper Fractions and Mixed Numbers
Unit 3: Comparing Fractions	A: Comparing Proper Fractions
	B: Comparing Mixed Numbers and Improper Fractions
	C: Word Problems
Unit 4: Addition and Subtraction	A: Adding and Subtracting Like Fractions
	B: Adding and Subtracting Unlike Fractions
	C: Adding Mixed Numbers
	D: Subtracting Mixed Numbers
Unit 5: Multiplication and Division	A: Multiplying Fractions
	B: Multiplying Mixed Numbers
	C: Dividing Fractions
	D: Dividing Mixed Numbers

CHAPTER 4: DECIMALS

Unit 1: Decimal Concept	A: Understanding Decimals
	B: Converting Decimals to Fractions
	C: Converting Fractions to Decimals
	D: Comparing Decimals
	E: Rounding Decimals
	F: Word Problems
Unit 2: Addition and Subtraction	A: Estimating Sums and Differences
	B: Adding Decimals
	C: Subtracting Decimals
	D: Word Problems

CHAPTER 5: ALGEBRAIC THINKING

CHAPTER 6: RATIO, PROPORTION, & PERCENT

CHAPTER 7: GEOMETRY

	C: Evaluating and Graphing Functions
Unit 6: Transformations	A: Transformations
	B: Reflections
	C: Translations
	D: Rotations
	E: Dilations

CHAPTER 8: MEASUREMENT

Unit 1: Units of Measurement	A: Customary Unit Conversions
	B: Metric Unit Conversions
	C: Units of Measurement
Unit 2: Perimeter and Circumference	A: Perimeter
	B: Circumference
	C: Word Problems
Unit 3: Area	A: Area of Squares and Rectangles
	B: Area of Triangles
	C: Area of Parallelograms and Trapezoids
	D: Area of a Circle
	E: Changing Dimensions
	F: Word Problems
Unit 4: Surface Area and Volume	A: Surface Area
	B: Volume of Prisms and Pyramids
	C: Volume of Cylinders, Spheres, and Cones
	D: Word Problems
Unit 5: Right Triangles	A: Square Roots
	B: Using Square Roots to Solve Equations
	C: Pythagorean Theorem
	D: Pythagorean Triples

CHAPTER 9: PROBABILITY & STATISTICS

Unit 1: Common Graphs and Charts	A: Pictographs and Line Plots
	B: Bar Graphs
	C: Line Graphs
	D: Circle Graphs
Unit 2: Representing Data	A: Stem-and-Leaf Plots and Frequency Tables
	B: Histograms
	C: Scatterplots and Trends
	D: Misleading Graphs
Unit 3: Central Tendency	A: Range, Median, and Mode
	B: Box-and-Whisker Plots
	C: Mean
	D: Word Problems
Unit 4: Probability	A: Simple Probability
	B: Experimental Probability
	C: Probability of Independent Events
	D: Probability of Dependent Events
	E: Simulations
Unit 5: Counting Methods	A: Tree Diagrams and the Counting Principle
	B: Permutations
	C: Combinations