

Math 8 Textbook

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Working with fractions; fraction, decimal, and percent equivalents Order of operations; finding mean, median, mode, and range Reviewing basic geometric formulas; multiplying terms by a constant Solving and checking equations Changing mixed and fraction percents to decimals; solving algebraic word problems Area of irregular figures; volume of prisms and cylinders Combining integers; multiplying and dividing numbers Calculating mixed units of measure Finding the missing dimension of geometric figures Using the distributive property; using prime factorization to find the GCF Factor-label method of conversion Solving equations and inequalities and graphing solutions Simplifying complex fractions	Calculating the amount of increase or decrease Finding the surface area of pyramids Using prime factorization to find the LCM; combining more than two integers Calculating profit or loss Calculating percent of increase or decrease Using proportions to solve percent word problems Simplifying expressions with variables Reading and constructing bar graphs Fraction equivalents of percents in word problems; fluid ounce equivalents The pythagorean theorem Calculating profit or loss as a percent of sales Simplifying expressions before solving equations Using the interest formula	Understanding probability and expressing levels of certainty Plotting and locating points on a coordinate plane Automobile purchase costs Constructing congruent triangles Finding the surface area of cylinders Calculating commission Expressing probability as a ratio Reading and constructing bar-in-a-bar graphs Identifying rational and irrational numbers Graphing linear relations Using the interest formula for partial years Solving fraction questions; simplifying expressions with variables and exponents Perfect squares and irrational numbers	Multiplying identical bases with exponents Constructing congruent angles Convenience store pricing Solving equations with a squared variable Finding the surface area of cones Finding square roots on a calculator Multistep unit conversions Constructing and reading circle graphs Finding lengths using the pythagorean theorem The relationship of volume to capacity in U.S. measures Probability with more than two options Order of operations with grouping symbols Solving and graphing linear equations	Adding and subtracting fractions horizontally; finding volume with varied units of measure Constructing a triangle with three given sides Reducing algebraic fractions Generic and store-brand items Graphing linear relations with negative solutions Expressing numbers in scientific notation Probability expressed as a percent Constructing a histogram Multiplying terms with exponents Finding the surface area of spheres Overhead costs Using the factor-label method to convert rates Multiplying numbers in scientific notation
Unit 6	Unit 7	Unit 8	Unit 9	Unit 10
Calculating markup and selling price Constructing a triangle from two given sides and a given angle (SAS) Finding the volume of cones and pyramids Introducing insurances Simplifying expressions with division bars Using the percent proportion to solve percent word problems Combination probability Reading and constructing line graphs Distance between points on a coordinate plane Using the distributive property to simplify multiplication Dividing expressions with identical bases Measuring electricity: kilowatt-hours Counting back change without a cash register	Equations with fraction coefficients Constructing a triangle from two given angles and a given side (ASA) Calculating chain discounts Calculating insurance premiums Solving equations with negative numerical coefficients Dividing numbers in scientific notation Multiple probability Constructing and reading a double line graph Opposite and adjacent sides in trigonometry Simplifying after multiplying or dividing in scientific notation Calculating unit price to the nearest tenth of a cent Levels of precision Counting change when customer gives both bills and coins	Multiplying negative numbers in a series Finding the volume of spheres Measuring electricity: volts, amperes, and watts Calculating property tax Multiple probability without replacement Solving equations with a variable on both sides of the equal sign Multiplying square roots Reading and constructing pictographs The multiplication principle of counting Introducing sine, cosine, and tangent Unit price with different units of measure Using proportions to solve fraction word problems Introducing the trigonometry chart	Variables on both sides of a complex equation Counting significant figures Compound interest Paying vehicle insurance Permutations Comparing size and price to find the best value Rounding according to significant figures Constructing and reading rectangle graphs Solving inequalities: multiplying or dividing by a negative number Using sine, cosine, and tangent Finding the volume of irregular solids Computing percentiles Combining square roots	Introduction to banks Making a deposit Writing a check Using a check register Introducing a bank statement Reconciling a bank statement If the bank statement and the check register do not agree Using credit cards Recording automatic transactions Using debit cards and ATMs Recognizing needs and wants Recording income and expenses Making a budget Recording expenses using a multicolumn journal Preparing year-end reports