

Math 8 LightUnits Sunrise Edition

801	802	803	804	805
Tests these skills and concepts: Integer computation Math facts to know Solving equations Percent concepts Area and volume Expressions Percent applications Geometry Prime numbers U.S./metric conversions Inequalities	Finding the areas of irregular shapes containing circle parts Using prime factorization to find the LCM The distributive property with negative numbers Profit and loss Finding the surface area of pyramids The subtraction/negative sign Understanding probability Expressing certainty Visualizing probabilities Bar graphs The Pythagorean Theorem Showing profit and loss as a percent of sales Using the interest formula for partial years Points on a coordinate plane Fluid ounces, pints, quarts, and gallons	Constructing congruent triangles Squaring fractions and decimals Like terms in expressions Automobile purchase costs Simplifying expressions that include different variables Finding the surface area of cylinders Using numbers for probability Graphs and statistics: Bar-in-a-bar graph Changing fractional percents to decimals (with rounding) Simplifying expressions that include exponents Linear relations Rational and irrational numbers Perfect squares and irrational square roots	Multiplying combinations of variables, constants, and exponents Constructing congruent angles Probability with more than two options Convenient store pricing Solving equations with a squared variable Finding the surface area of cones Finding square roots on a calculator Graphs and statistics: Circle graph Finding lengths using the Pythagorean Theorem The relationship of volume to capacity in U. S. measures Counting change from a cash register display Order of operations with grouping symbols: parentheses, brackets, and braces Graphing linear equations	Finding volume with varied units Constructing a triangle with three given sides Reducing algebraic fractions Generic and store brand items Graphing linear equations on a coordinate plane Scientific notation Probability and percents Histograms Dividing variables with exponents Formula for the surface area of a sphere Overhead (fixed costs) Unit price: Changing thousandths of a dollar to tenths of a cent Multiplying numbers in scientific notation
806	807	808	809	810
Markup and selling price Constructing a triangle with two given sides and a given angle (SAS) Finding the volume of pyramids and cones Introduction to insurances Simplifying expressions with division bars Using the percent proportion to solve story problems Combination probability Line graphs Distances between points Mental multiplication using the distributive property Dividing numbers in scientific notation Counting back change without a cash register Measuring electricity: kilowatt-hours	Solving equations with fractional coefficients Constructing a triangle with two given angles and their contained side Chain discounts Calculating insurance premiums Solving equations with negative numerical coefficients Extracting the square root Multiple probability Graphs and statistics: multiple line graphs Opposite and adjacent sides in trigonometry Simplifying after multiplying or dividing in scientific notation Unit price to tenths of cent Making change without a cash register when the customer gives both bills and coins Levels of precision	Multiplying negative numbers in a series Simplifying negative numbers with exponents Formula for the volume of a sphere Measuring electricity: volts, amperes, and watts Property tax in mills Multiple probability without replacement Variables on both sides of a simple equation Multiplying square roots Graphs and statistics: Pictographs The multiplication principle of counting Introduction to sine, cosine, and tangent Unit price: Dissimilar units Using proportions to solve fraction story problems The trigonometry chart	Variables on both sides of a complex equation Compound interest Counting significant digits Vehicle insurance Permutations Which is the better buy? Rounding according to significant digits Graphs and statistics: Rectangle graphs Solving Inequalities: Multiplying or dividing by a negative number Sine, cosine, and tangent applications Volume of an irregular solid Percentiles Combining square roots	Recognizing wants and needs Budgeting – Tracking present expenses Writing a check Important safety tips for writing a check Budgeting – Projecting future expenses Credit cards Keeping a check register Debit and ATM cards Other checking account transactions Budgeting – Making it work Cashing or depositing a check Recording expenses using a multicolumn journal Reconciling your check register with your bank statement The path of a check