

SUNRISE MATHEMATICS 800

<p>801</p> <p>Tests these skills and concepts:</p> <p>Integer computation Math facts to know Solving equations Percent concepts Area and volume Expressions Percent applications Geometry Prime numbers U.S./metric conversions Inequalities</p>	<p>802</p> <p>Section 1 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 Fascinating discoveries: The Greek Cross</p> <p>Section 2 Finding the surface area of pyramids The subtraction/negative sign Understanding probability Expressing certainty Visualizing probabilities Bar graphs Fascinating discoveries: faithful formulas for surface areas of pyramids and prisms</p> <p>Section 3 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 Fascinating discoveries: the 3-4-5 Rule</p>	<p>803</p> <p>Section 1 Constructing congruent triangles Squaring fractions and decimals Like terms in expressions Automobile purchase costs Fascinating discoveries: angel food cakes</p> <p>Section 2 Simplifying expressions that include different variables Finding the surface area of cylinders Using numbers for probability Graphs and statistics: Bar-in-a-bar graph Fascinating discoveries: density of water – Part 1</p> <p>Section 3 Changing fractional percents to decimals (with rounding) Simplifying expressions that include exponents Linear relations Rational and irrational numbers Perfect squares and irrational square roots Fascinating discoveries: density of water – Part 2</p>	<p>804</p> <p>Section 1 Multiplying combinations of variables, constants, and exponents Constructing congruent angles Probability with more than two options Convenient store pricing Fascinating discoveries: using your watch to determine your speed</p> <p>Section 2 Solving equations with a squared variable Finding the surface area of cones Finding square roots on a calculator Graphs and statistics: Circle graph Fascinating discoveries: negative roots</p> <p>Section 3 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 Fascinating discoveries: understanding the formula for surface area of cones</p>	<p>805</p> <p>Section 1 Finding volume with varied units Constructing a triangle with three given sides Reducing algebraic fractions Generic and store brand items Fascinating discoveries: sums, squares, and differences</p> <p>Section 2 Graphing linear equations on a coordinate plane Scientific notation Probability and percents Histograms Fascinating discoveries: calculator fun</p> <p>Section 3 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 Fascinating discoveries: 3 x 3 squares.</p>
<p>806</p> <p>Section 1 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 Fascinating discoveries: constructing regular hexagons and equilateral triangles</p> <p>Section 2 Simplifying expressions with division bars Using the percent proportion to solve story problems Combination probability Line graphs Fascinating discoveries: constructing geometric designs</p> <p>Section 3 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 Fascinating discoveries: reading an electric meter</p>	<p>807</p> <p>Section 1 Solving equations with fractional coefficients Constructing a triangle with two given angles and their contained side Chain discounts Calculating insurance premiums Fascinating discoveries: divisibility rule for 11</p> <p>Section 2 Solving equations with negative numerical coefficients Extracting the square root Multiple probability Graphs and statistics: multiple line graphs Fascinating discoveries: divisibility rule for 7</p> <p>Section 3 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 Fascinating discoveries: divisibility rule for thirteen</p>	<p>808</p> <p>Section 1 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 Fascinating discoveries: divisibility rule for seventeen</p> <p>Section 2 Multiple probability without replacement Variables on both sides of a simple equation Multiplying square roots Graphs and statistics: Pictographs Fascinating discoveries: divisibility rule for nineteen</p> <p>Section 3 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 Fascinating discoveries: gold and silver softballs</p>	<p>809</p> <p>Section 1 Variables on both sides of a complex equation Compound interest Counting significant digits Vehicle insurance Fascinating discoveries: compound interest formula</p> <p>Section 2 Permutations Which is the better buy? Rounding according to significant digits Graphs and statistics: Rectangle graphs Fascinating discoveries: exponential Christianity</p> <p>Section 3 Solving Inequalities: Multiplying or dividing by a negative number Sine, cosine, and tangent applications Volume of an irregular solid Percentiles Combining square roots Fascinating discoveries: how wide is the river?</p>	<p>810</p> <p>Section 1 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</p>