

Virginia Grade Level Alternative Worksheet

Grade 8 Mathematics

Student's Name: _____ State Testing Identifier: _____

Check all that apply:

_____ Assigned scores have been entered into the online VGLA System.

_____ Assigned scores have been verified and submitted for final scoring in the online VGLA System

An "X" under No Evidence
represents a Total of 0.

Reporting Category	SOL #	Specific Virginia Standard of Learning	Demonstrated (0 to 4)	Inferred (0 to 4)	No Evidence (0)	Total (0 to 4)
RC 1	8.1	The student will a) simplify numerical expressions involving positive exponents, using rational numbers, order of operations, and properties of operations with real numbers; b) recognize, represent, compare, and order numbers expressed in scientific notation; and c) compare and order decimals, fractions, percents, and numbers written in scientific notation.				
RC1	8.2	The student will describe orally and in writing the relationship between the subsets of the real numbers system.				
RC 2	8.3	The student will solve practical problems involving rational numbers, percents, ratios, and proportions. Problems will be of varying complexities and will involve real-life data, such as finding a discount and discount prices and balancing a checkbook.				
RC 2	8.4	The student will apply the order of operations to evaluate algebraic expressions for given replacement values of the variables. Problems will be limited to positive exponents.				
RC 2	8.5	The student, given a whole number from 0 to 100, will identify it as a perfect square or find the two consecutive whole numbers between which the square root lies.				
RC 3	8.6	The student will verify by measuring and describe the relationships among vertical angles, supplementary angles, and complementary angles and will measure and draw angles of less than 360° .				
RC 3	8.7	The student will investigate and solve practical problems involving volume and surface area of rectangular solids (prisms), cylinders, cones, and pyramids.				
RC 3	8.8	The student will apply transformations (rotate or turn, reflect or flip, translate or slide, and dilate or scale) to geometric figures represented on graph paper. The student will identify applications of transformations, such as tiling, fabric design, art, and scaling.				
RC 3	8.9	The student will construct a three-dimensional model, given the top, side, and/or bottom view.				
RC 3	8.10	The student will a) verify the Pythagorean Theorem, using diagrams, concrete materials, and measurement; and b) apply the Pythagorean Theorem to find the missing length of a side of a right triangle when given the lengths of the other two sides.				
RC 4	8.11	The student will analyze problem situations, including games of chance, board games, or grading scales, and make predictions, using knowledge of probability.				
RC 4	8.12	The student will make comparisons, predictions, and inferences, using information displayed in frequency distributions; box-and-whisker plots; scattergrams; line, bar, circle and picture graphs; and histograms.				
RC 4	8.13	The student will use a matrix to organize and describe data.				
RC 5	8.14	The student will a) describe and represent relations and functions, using tables, graphs, and rules; and b) relate and compare tables, graphs, and rules as different forms of representation for relationships.				
RC 5	8.15	The student will solve two-step equations and inequalities in one variable, using concrete materials, pictorial representations, and paper and pencil.				

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RC 5	8.16	The student will graph a linear equation in two variables in the coordinate plane, using a table of ordered pairs.				
RC 5	8.17	The student will create and solve problems using proportions, formulas, and functions.				
RC 5	8.18	The student will use the following algebraic terms appropriately: <i>domain, range, independent variable, and dependent variable</i> .				

Reporting Category Key

- RC 1 **Number and Number Sense**
- RC 2 **Computation and Estimation**
- RC 3 **Measurement and Geometry**
- RC 4 **Probability and Statistics**
- RC 5 **Patterns, Functions, and Algebra**