

Sheridan County School District #3
2020-2021
6th Grade Math Priority Standards
(09/15/20)

Sixth Grade

Ratios and Proportional Relationships		6.RP
WY-TOPP	5-7 items 16-22%	
6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems. A). Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios. B). Solve unit rate problems including those involving unit pricing and constant speed. C). Understand that a percentage is a rate per 100 and use this to solve problems involving finding the wholes, parts and percentages. D). Use ratio reasoning to convert measurement units; convert units appropriately when multiplying or dividing quantities.	
The Number System		6.NS
WY-TOPP	6-8 items 19-25%	
6.NS.B.1	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions by using visual fraction models and equations to represent the problem.	
6.NS.C.4	Find common factors and multiples using two whole numbers. A). Find the greatest common factor of two whole numbers less than or equal to 100. B). Find the least common multiple of two whole numbers less than or equal to 12. C). Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor.	
6.NS.D.8	Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Find distances between points with the same first coordinate or the same second coordinate; relate absolute value and distance.	
Expressions and Equations		6.EE
WY-TOPP	7-11 items 22-34%	
6.EE.E.1	Write and evaluate numerical expressions involving whole-number exponents.	
6.EE.E.2	Write, read, and evaluate expressions in which letters stand for numbers. A). Write expressions that record operations with numbers and with letters standing for numbers. B). Identify parts of an expression using mathematical terms (sum, difference, term, product, factor, quotient, coefficient, constant). C). Use Order of Operations to evaluate algebraic expressions at using positive rational numbers and whole-number exponents. Include expressions that arise from formulas in real-world problems.	
6.EE.F.7	Write and solve real-world and mathematical problems in the form of one-step, linear equations involving non negative rational numbers.	
6.EE.F.8	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of this form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	
6.EE.G.9	Use variables to represent two quantities in a real-world problem that change in relationship	

	to one another; write an equation to express one quantity, (dependent variable), in terms of the other quantity (independent variable). Analyze their relationship using graphs and tables, and relate these to the equation.
Geometry 6.G	
WY-TOPP	4-6 items 13-19%
6.G.H.1	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.
6.G.H.2	Find the volume of a right rectangular prism with fractional edge lengths in the context of solving real-world and mathematical problems by applying the formulas $V = (l)(w)(h)$ and $V = (B)(h)$, and label with appropriate units.
6.G.H.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.
Statistics and Probability 6.SP	
WY-TOPP	4-5 items 13-16%
6.SP.J.4	Display numerical data in plots on a number line, including dot plots, stem-and-leaf plots, histograms, and box plots.
6.SP.J.5	Summarize numerical data sets in relation to their context.