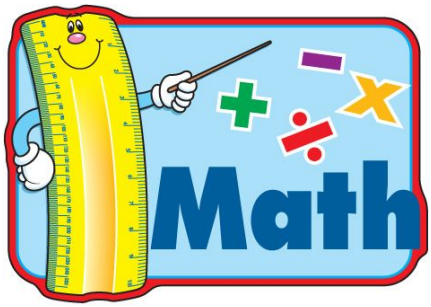
6th Grade

Power Standards



Power Standard 1

- ❏ I can find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. (6.NS.4 pt 1)

Power Standard 2

- ❏ I can understand statements of inequality (Ex: -3 > -7) and explain their positions and distances apart on a number line. (6.NS.7a)
- ❏ I can write, understand and explain how the order of rational numbers applies in real-world situations (Ex: -3*C > -7*C to show that -3*C is warmer than -7*C). (6.NS.7b)
- ❏ I understand the absolute value of a number as its distance from 0 on the number line. (6.NS.7c)
- ❏ I can understand absolute values as they apply to real-world situations (Ex: for an account balance of -30 dollars, write (-30) = 30 to describe the size of the debt in dollars). (6.NS.7c)
- ❏ I can tell the difference between comparisons of absolute value from statements of order (Ex: An account balance less than -30 dollars is a debt greater than 30 dollars). (6.NS.7d)

Power Standard 3

- ❏ I solve unit rate problems. (Ex: If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were the lawns being mowed?) (6.RP.3b)
- ❏ I can find a percent of a quantity as a rate per 100. (Ex: 30% of a quantity means 30/100 times the quantity). (6.RP.3c)
- ❏ I can solve problems involving finding the whole if I am given a part and the percent. (6.RP.3c)

Power Standard 4

- ❏ I can write an inequality (x > c or x < c) to stand for a limitation or condition in a real-world or mathematical problem that has infinitely many solutions. (6.EE.8)
- ❏ I can show the answers to problems involving inequalities on number line diagrams. (6.EE.8)

Power Standard 5

- ❏ I can write expressions with numbers and letters standing for numbers. (6.EE.2a)
- ❏ I can figure out different answers to expressions when given specific values for the variable. (6.EE.2c)
- ❏ I can solve real-world problems involving expression that arise from formulas. (6.EE.2c)
- ❏ I can solve math problems including those with exponents, in the usual order (when no parentheses are there to give a particular order). (6.EE.2c)

Power Standard 6

- ❏ I can name the parts of an expression using mathematical words (sum, term, product, factor, quotient, coefficient). (6.EE.2b)
- ❏ I can look at one or more parts of an expression in different ways. (Ex: 8 + 7 can be seen as an addition sentence or as the number 15). (6.EE.2b)

Power Standard 7

- ❏ I can solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ (where p, q, and x are all nonnegative rational numbers). (6.EE.7)

Power Standard 8

- ❏ I can use variables that change in relationship to one another to represent two quantities in a real world problem. (6.EE.9)
- ❏ I can write an equation to show one quantity (the dependent variable) in terms of the other quantity (the independent variable). (6.EE.9)
- ❏ I can use graphs and tables to show the relationship between dependent and independent variables. (6.EE.9)

Power Standard 9

- ❏ I can easily add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. (6.NS.3)

Power Standard 10

- ❏ I understand how to find a rate when given a specific ratio. (Ex: We paid $75 for 15 hamburgers, which is a rate of $5 per hamburger). (6.RP.2)

Power Standard 11

- ❏ I can divide two fractions. (6.NS.1a)

- ❏ I can solve word problems involving the division of fractions by fractions by using visual fraction models and equations to represent the problem. (6.NS.1b)
- ❏ I can explain the meaning of the answer (quotient) of fraction division answers. (6.NS.1c)

Power Standard 12

- ❏ I can find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing and decomposing into rectangles, triangles and/or other shapes. (6.G.1)
- ❏ I can use these techniques to solve real-world and mathematical problems. (6.G.1)

Power Standard 13

- ❏ I can use reasoning to solve word problems involving rate and ratios. (6.RP.3a)
- ❏ I can make tables of equivalent ratios, find missing values in the tables and use the tables to compare ratios. (6.RP.3a)
- ❏ I can plot ratios on a coordinate plane. (6.RP.3a)

Power Standard 14

- ❏ I can find the average of a number and recognize that the average or measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number. (6.SP.3)

Power Standard 15

- ❏ I can use what I know about ratios to convert units of measurement. (6.RP.3d)
- ❏ I can change units of measurement correctly when multiplying or dividing quantities. (6.RP.3d)