Sixth Grade Second Semester Math Curriculum Guide

Third Nine Weeks

Statistics & Probability

6.SP.A.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers

6.SP.A.2 Determine center, spread, and overall shape from a set of data

6.SP.A.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number (*mean*, *median*, *mode*), while a measure of variation (*interquartile range*, *mean absolute deviation*) describes how its values vary with a single number

6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots

6.SP.B.5 Summarize numerical data sets in relation to their context, such as by:

- Reporting the number of observations

Fourth Nine Weeks

Geometry
Ratios & Proportions

6.G.A.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.A.2 Find the volume of a right rectangular prism including whole number and fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism
Apply the formulas $V = l\,w\,h$ and $V = B\,h$ to find volumes of right rectangular prisms including fractional edge lengths in the context of solving real-world and mathematical problems

6.G.A.3 Apply the following techniques in the context of solving real-world and mathematical problems

6.G.A.4 Apply the following techniques in the context of solving real-world and mathematical problems

6.RP.A.1 Understand the concept of a *ratio* and use *ratio* language to describe a *ratio* relationship between two quantities

6.RP.A.2 Understand the concept of a unit rate a/b associated with a *ratio* a:b with $b \neq 0$, and use rate language in the context of a *ratio* relationship

6.RP.A.3 Use *ratio* and rate reasoning to solve real-world and mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations)