Seventh Grade Second Semester Math Curriculum Guide

Third Nine Weeks

Module 4 Percents & Proportional Relationships

7.RP.A.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units

7.RP.A.2 Recognize and represent proportional relationships between quantities

7.RP.A.3 Use proportional relationships to solve multi-step ratio and percent problems

7.EE.B.3 Solve multi-step, real-life, and mathematical problems posed with positive and negative *rational numbers* in any form using tools strategically:

7.G.A.1 Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale

Fourth Nine Weeks

Module 6 Geometry

7.G.A.2 Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions:

- Given three measures of angles or sides of a triangle, notice when the conditions determine a unique triangle, more than one triangle, or no triangle

Differentiate between regular and irregular polygons

7.G.A.3 Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids

7.G.B.4 Know the formulas for the area and circumference of a circle and use them to solve problems.
Give an informal derivation of the relationship between the circumference and area of a circle

7.G.B.5 Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure

7.G.B.6 Solve real-world and mathematical problems involving area of two-dimensional objects and volume and surface area of three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms