

Fifth Grade ~ Critical Learning Concepts

1	Divide multi-digit numbers, using efficient and generalizable procedures, based on knowledge of place value, including standard algorithms. Recognize that quotients can be represented in a variety of ways, including a whole number with a remainder, a fraction or mixed number, or a decimal.
2	Find 0.1 more than a number and 0.1 less than a number. Find 0.01 more than a number and 0.01 less than a number. Find 0.001 more than a number and 0.001 less than a number.
3	Order fractions and decimals, including mixed numbers and improper fractions, and locate on a number line.
4	Recognize and generate equivalent decimals, fractions, mixed numbers and improper fractions in various contexts.
5	Round numbers to the nearest 0.1, 0.01 and 0.001.
6	Add and subtract decimals and fractions, using efficient and generalizable procedures, including standard algorithms.
7	Create and use rules, tables, spreadsheets and graphs to describe patterns of change and solve problems.
8	Use a rule or table to represent ordered pairs of positive integers and graph these ordered pairs on a coordinate system.
9	Apply the commutative, associative and distributive properties and order of operations to generate equivalent numerical expressions and to solve problems involving whole numbers.
10	Evaluate expressions and solve equations involving variables when values for the variables are given.
11	Describe and classify three-dimensional figures including cubes, prisms and

	pyramids by the number of edges, faces or vertices as well as the types of faces.
12	Recognize and draw a net for a three-dimensional figure.
13	Develop and use formulas to determine the area of triangles, parallelograms and figures that can be decomposed into triangles.
14	Use various tools and strategies to measure the volume and surface area of objects that are shaped like rectangular prisms.
15	Develop and use the formulas $V = \ell wh$ and $V = Bh$ to determine the volume of rectangular prisms. Justify why base area B and height h are multiplied to find the volume of a rectangular prism by breaking the prism into layers of unit cubes.
16	Know and use the definitions of the mean, median and range of a set of data. Know how to use a spreadsheet to find the mean, median and range of a data set. Understand that the mean is a "leveling out" of data.