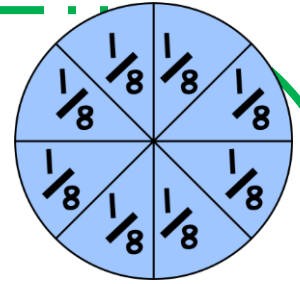# "I Can" Do Math

### (Numbers & Operations - Fractions)

I can use equivalent (equal) fractions as a strategy to add and subtract fractions.

- ☐ 5.NF.A.1 I can add and subtract fractions with unlike denominators.
- ☐ 5.NF.A.2 I can solve word problems that involve addition and subtraction of fractions.
- ☐ 5.NF.A.2 I can use number sense and fractions that I know to estimate the reasonableness of answers to fraction problems.

I can use and increase my understanding of multiplication and division.

- ☐ 5.NF.B.3 I can understand that fractions are really division problems.
- ☐ 5.NF.B.3 I can solve word problems where I need to divide whole numbers leading to answers that are fractions or mixed numbers.
- ☐ 5.NF.B.4 I can use what I know about multiplication to multiply fractions or whole numbers by a fraction.
- ☐ 5.NF.B.4.A I can understand and show with models that multiplying a fraction by a whole number is the same as finding the product of the numerator and whole number and then dividing it by the denominator.
- ☐ 5.NF.B.4.B I can use unit squares to find the area of a rectangle with fractional side lengths and prove that it is the same as multiplying the side lengths (A = l x w).

☐ 5.NF.B.5 I can think of multiplication as the scaling of a number (similar to a scale on a map.)

☐ 5.NF.B.5.A I can mentally compare the size of a product to the size of one of the factors by thinking about the other factor in the problem.

☐ 5.NF.B.5.B I can explain why multiplying a number by a fraction greater than 1 will result in a bigger number than the number I started with.

☐ 5.NF.B.5.B I can explain why multiplying a number by a fraction less than 1 will result in a smaller number than the number I started with.

☐ 5.NF.B.5.B I can relate the notion of equivalent fractions to the effect of multiplying a fraction by 1.

☐ 5.NF.B.6 I can solve real world problems that involve multiplication of fractions and mixed numbers.

☐ 5.NF.B.7 I can use what I know about division to divide fractions by whole numbers or whole numbers by fractions.

☐ 5.NF.B.7.A I can divide a fraction by a whole number (not 0) correctly.

☐ 5.NF.B.7.B I can divide a whole number by a fraction correctly.

☐ 5.NF.B.7.C I can use what I know about division problems involving fractions to solve real world problems.
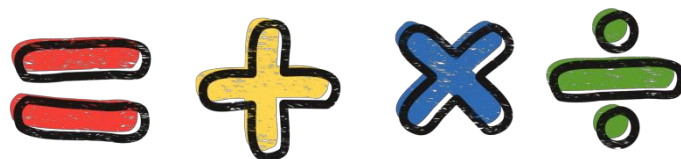
"I Can" Do Math

(Measurement & Data)

I can convert like measurement units within a given measurement system.

☐ 5.MD.A.1 I can convert different-sized measurements within the same measurement system.

☐ 5.MD.A.1 I can use measurement conversions to solve real-world problems.

I can represent and interpret data.

☐ 5.MD.B.2 I can make a line plot to show a data set of measurements involving fractions.

☐ 5.MD.B.2 I can use addition, subtraction, multiplication and division of fractions to solve problems involving information presented on a line plot.

I can understand the concept of measurement in geometry with regards to volume.

☐ 5.MD.C.3   I can recognize volume as a characteristic of solid figures and understand how it can be measured.

☐ 5.MD.C.3.A I can understand a "unit cube" as a cube with side lengths of 1 unit and can use it to measure volume.

☐ 5.MD.C.3.B I can understand that a solid figure filled with a number of unit cubes is said to have a volume of that many cubes.

☐ 5.MD.C.4   I can measure volume by counting unit cubes.

☐ 5.MD.C.5   I can solve real world problems involving volume by thinking about multiplication of addition.

☐ 5.MD.C.5.A I can use unit cubes to find the volume of a right rectangular prism with whole number side lengths and prove that it is the same as multiplying the edge lengths (V = l x w x h).

☐ 5.MD.C.5.B I can solve real-world and mathematical problems involving volume of an object using the formulas V = l x w x h and V = b x h.

☐ 5.MD.C.5.B I can find the volumes of solid figures made up of two right rectangular prisms by adding the volumes of both.

☐ 5.MD.C.5.C I can solve real-world problems using what I know about adding the volumes of two right rectangular prisms.

"I Can" Do Math

(Geometry)

I can graph points on the coordinate plane to solve real-world and mathematical problems.

☐ 5.G.A.1 I can understand a coordinate plane and ordered pairs of number coordinates on that plane.

☐ 5.G.A.1 I can graph ordered pairs of numbers on a coordinate plane using what I have learned about the x-axis and coordinate and the y-axis and coordinate.

☐ 5.G.A.2 I can represent real-world and mathematical problems by graphing points in the first quadrant of a coordinate plane.

☐ 5.G.A.2 I can understand coordinate values in the context of a real-world or mathematical problem.

I can classify 2-dimensional shapes into categories based on their properties.

- ☐ 5.G.B.3 I can understand how attributes of 2-dimensional shapes in a category also belong to all subcategories of those shapes.
- ☐ 5.G.B.4 I can classify 2-dimensional shapes based on their properties.