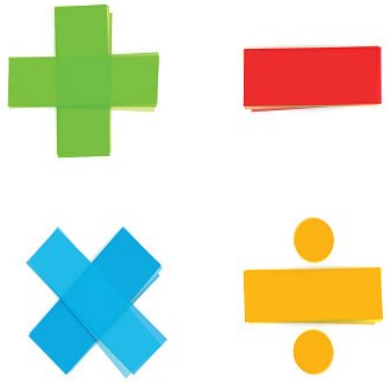
Operations & Algebraic Thinking

5th Grade—"I Can Do Math"

I can understand and write number sentences with one or more numbers and operations.

5.OA.1 □ I can write and figure out number sentences that have parentheses, brackets, and/or braces.
5.OA.2 □ I can correctly write number sentences using mathematic symbols and the order of operations correctly.
5.OA.2 .a □ I can write simple algebraic expressions that record calculations with numbers.
5.OA.2 .b □ I can understand number sentences and estimate their answers without actually calculating them.



I can study number patterns and figure out their relationships.

5.OA.3 □ I can create two number patterns using two given rules.
5.OA.3 □ I can identify relationships between two number patterns.
5.OA.3 □ I can form ordered pairs using the relationship between two number patterns and graph them on a coordinate plane.

Numbers & Operations in Base 10

5th Grade—"I Can Do Math"

I can understand the place value system.

5.NBT.1 □ I can understand and explain the value of digits in a larger number.
5.NBT.2 □ I can explain patterns of zeroes in an answer when multiplying a number by powers of 10.
5.NBT.2 □ I can explain patterns of decimal placement when a decimal is multiplied or divided by a power of 10.
5.NBT.2 □ I can use whole-number exponents to show powers of 10.
5.NBT.3 □ I can read, write, and compare decimals to thousandths.
5.NBT.3.a □ I can read and write decimals to thousandths using base-ten numbers, number names, and expanded form.
5.NBT.3.b □ I can compare two decimals to thousandths using the >, =, and < symbols correctly.
5.NBT.4 □ I can use place value understanding to help me round decimals to any place.

I can solve math equations with larger whole numbers and decimals to the hundredths.

5.NBT.5 □ I can easily multiply larger whole numbers.
5.NBT.6 □ I can divide four-digit numbers (dividends) by two-digit numbers (divisors).
5.NBT.6 □ I can illustrate and explain a division problem using equations, arrays, and/or models.
5.NBT.7 □ I can add, subtract, multiply, and divide decimals to hundredths using what I have learned about place value.
5.NBT.7.□ I can relate the strategies I use to add, subtract, multiply, and divide decimals to hundredths to a written problem and explain why I chose the strategies to help me solve the problem.

Numbers & Operations (Fractions)

5th Grade—"I Can Do Math"

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

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

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

5.NF.3 □ I can understand that fractions are really division problems.
5.NF.3 □ I can solve word problems where I need to divide whole numbers leading to answers that are fractions or mixed numbers.
5.NF.4 □ I can use what I know about multiplication to multiply fractions or whole numbers by a fraction.
5.NF.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.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).

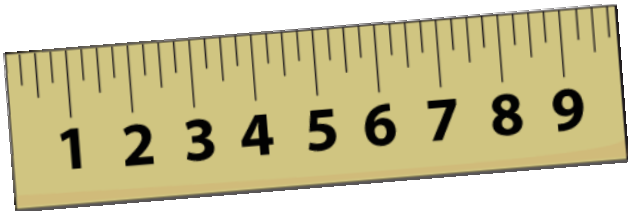
Numbers & Operations (Fractions) (cont.)

5th Grade—"I Can Do Math"

I can build fractions from unit fractions.

5.NF.5 □ I can think of multiplication as the scaling of a number (similar to a scale on a map).
5.NF 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.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.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 5.b □ I can relate the notion of equivalent fractions to the effect of multiplying a fraction by 1.
5.NF.6 □ I can solve real world problems that involve multiplication of fractions and mixed numbers.
5.NF.7 □ I can use what I know about division to divide fractions by whole numbers or whole numbers by fractions.
5.NF.7.a □ I can divide a fraction by a whole number (not 0) correctly.
5.NF.7.b □ I can divide a whole number by a fraction correctly.
5.NF.7.c □ I can use what I know about division problems involving fractions to solve real world problems.

Measurement & Data



5th Grade—"I Can Do Math"

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

5.MD.1 □ I can convert different-sized measurements within the same measurement system.
5.MD.1. □ I can use measurement conversions to solve real-world problems.

I can represent and interpret data.

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

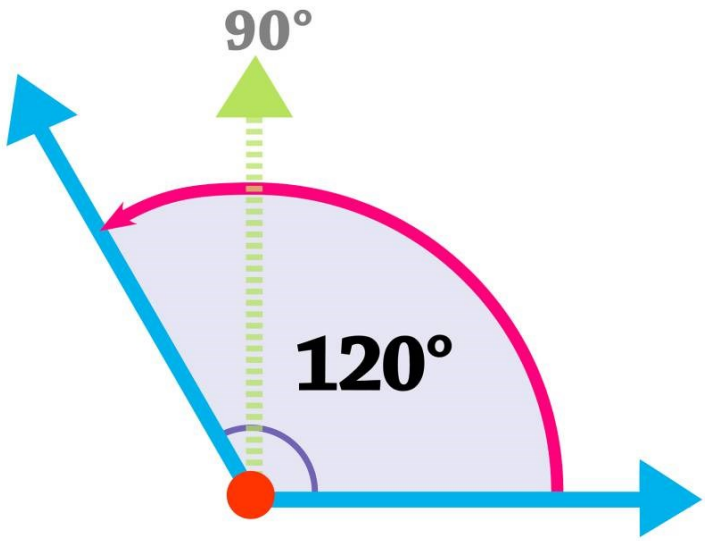
5.MD.3 □ I can recognize volume as a characteristic of solid figures and understand how it can be measured.
5.MD.3.a □ I can understand a "unit cube" as a cube with side lengths of 1 unit and can use it to measure volume.
5.MD.3.b □ I can understand that a solid figure filled with a number of unit cubes is said to have a volume of that many cubes.
5.MD.4 □ I can measure volume by counting unit cubes.

Measurement & Data (cont.)

5th Grade—"I Can Do Math"

I can understand the concept of measurement in geometry with regard to angles (cont.)

5. MD. 5 □ I can solve real-world problems involving volume by thinking about multiplication or addition.
5.MD. 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. 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. 5.c. □ I can find the volumes of solid figures made up of two right rectangular prisms by adding the volumes of both.
5.MD. 5.c □ I can solve real-world problems using what I know about adding volumes of two right rectangular prisms.

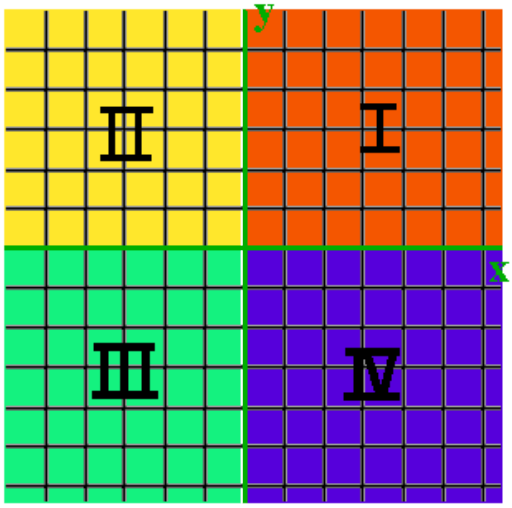


Geometry

5th Grade—"I Can Do Math"

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

5.G.1 □ I can understand a coordinate plane and ordered pairs of number coordinates on that plane.
5.G.1.a □ 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.1. b □ I can represent real-world and mathematical problems by graphing points in the first quadrant of a coordinate plane.
5.G.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. 3 □ I can understand how attributes of 2-dimensional shapes in a category also belong to all subcategories of those shapes.
5.G.4 □ I can classify 2-dimensional shapes based on their properties.