

Operations &

Algebraic Thinking

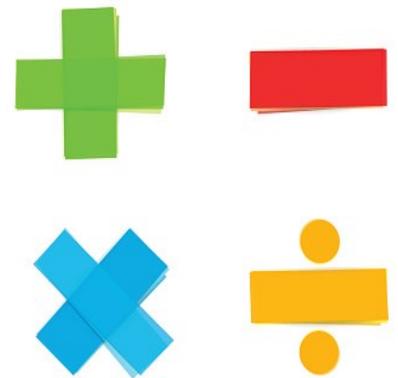
5th Grade—"I Can Do Math"

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

5.OA.1.a □ I can write and figure out number sentences that have parentheses, brackets, and/or braces.

5.OA.2.a □ I can correctly write number sentences using mathematic symbols and the order of operations correctly.

5.OA.2.a □ 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.b □ I can create two number patterns using two given rules.

5.OA.3.b □ I can identify relationships between two number patterns.

5.OA.3.b □ 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.a □ I can understand and explain the value of digits in a larger number.

5.NBT.2.a □ I can explain patterns of zeroes in an answer when multiplying a number by powers of 10.

5.NBT.2.a □ I can explain patterns of decimal placement when a decimal is multiplied or divided by a power of 10.

5.NBT.2.a □ I can use whole-number exponents to show powers of 10.

5.NBT.3.a □ 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.a □ I can use place value understanding to round decimals to any place.

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

5.NBT.5.b □ I can easily multiply larger whole numbers.

5.NBT.6.b □ I can divide four-digit numbers (dividends) by two-digit numbers (divisors).

5.NBT.6.b □ I can illustrate and explain a division problem using equations, arrays, and/or models.

5.NBT.7.b □ I can add, subtract, multiply, and divide decimals to hundredths using what I have learned about place value.

5.NBT.7.b □ 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)

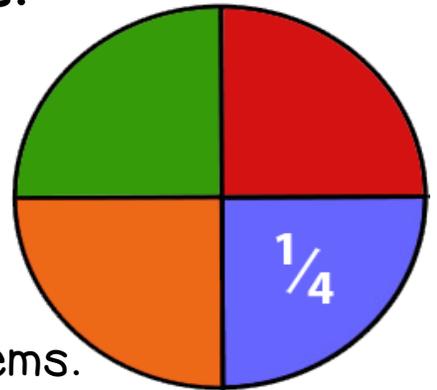
5th Grade—"I Can Do Math"

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

4.NF.1.a □ I can add and subtract fraction with unlike denominators.

4.NF.1.a □ I can solve word problems that involve addition and subtraction of fractions.

4.NF.2.a □ 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.3.b □ I can understand that fractions are really division problems.

5.NF.3.b □ I can solve word problems where I need to divide whole numbers leading to answers that are fractions or mixed numbers.

5.NF.4.b □ 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 ($A = l \times w$).

Numbers & Operations

(Fractions) (cont.)

5th Grade—"I Can Do Math"

I can build fractions from unit fractions.

5.NF.5.b □ 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.6.b □ 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.

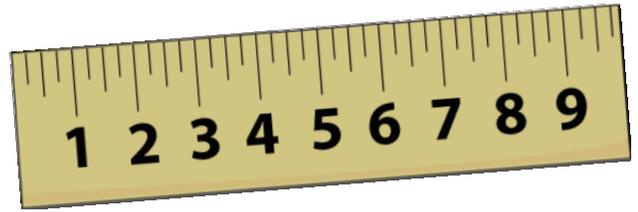
5.NF.b.7.a □ I can divide a fraction by a whole number (not 0) correctly.

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.

Measurement †

Data



5th Grade—"I Can Do Math"

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

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

5.MD.1.a □ I can use measurement conversions to solve real-world problems.

I can represent and interpret data.

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

5.MD.2.b □ 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.c □ I can recognize volume as a characteristic of solid figures and understand how it can be measured.

5.MD.3.c.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.c.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.c □ I can measure volume by counting unit cubes.

5.MD.4.c □ I can solve real word problems involving volume by thinking about multiplication of addition.

Measurement &

Data (cont.)

5th Grade—"I Can Do Math"

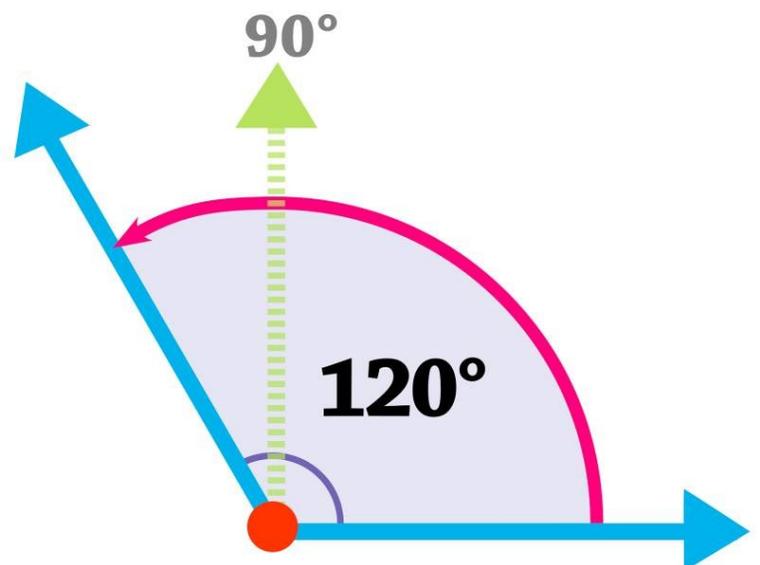
I can understand the concept of measurement in geometry with regard to angles (cont.)

5.MD.5.c.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 ($v = l \times w \times h$).

5.MD. 5.c. b □ I can solve real-world and mathematical problems involving volume of an object using the formulas $v = l \times w \times h$ and $v = b \times h$.

5.MD. 5.c.b □ 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.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"

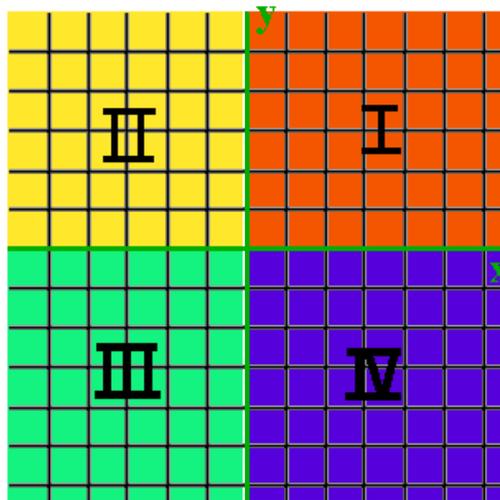
I can graph points on the coordinate plane to solve real-world and mathematical problems.

5.G.1.a □ 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.2.a □ I can represent real-world and mathematical problems by graphing points in the first quadrant of a coordinate plane.

5.G.2.a □ 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.b □ I can understand how attributes of 2-dimensional shapes in a category also belong to all subcategories of those shapes.

5.G.4.b □ I can classify 2-dimensional shapes based on their properties.