Operations & Algebraic Thinking

4th Grade—"I Can Do Math"

I can use the four operations (+, −, x, /) to help me solve problems.

4.OA.1 □ I can understand that multiplication equations can be seen as comparisons of groups (e.g. 24 = 4 x 6 can be thought of as 4 groups of 6 or 6 groups of 4).

4.OA.2 □ I can multiply or divide to solve word problems by using drawings or writing equations and solving for a missing number.

4.OA. 3 □ I can solve multi-step word problems that use whole numbers and have a remainder using the four operations.

4.OA. 3. a □ I can represent multi-step word problems using equations with a letter that represents an unknown quantity.

4.OA.3. b □ I can determine how reasonable my answers to word problems are by using estimation, mental math, and rounding.

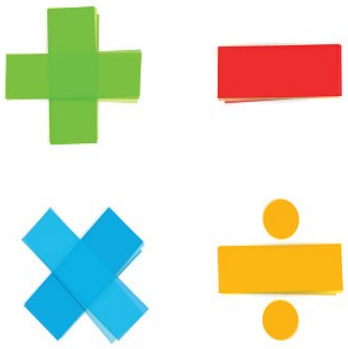
I can become familiar with factors and multiples

4.OA.4 □ I can find all factor pairs for a whole number from 1 to 100.

4.OA.4 □ I can recognize a whole number as a multiple of each of it's factors.

4.OA.4 □ I can determine whether a whole number within the range of 1- 100 is a multiple of a given one digit number.

4.OA.4 □ I can determine whether a given whole number up to 100 is a prime or composite number.



Numbers & Operations in Base 10

4th Grade—"I Can Do Math"

I can use place value to help me understand larger numbers.

4.NBT.1.□ I can recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.
4.NBT.2 □ I can read and write larger whole numbers using numerals, words, and expanded form.
4.NBT.2 □ I can compare two larger numbers by using what I know about the values in each place.
4.NBT.2 □ I can compare two larger numbers and use the symbols >, =, and < to show the comparison.
4.NBT.3 □ I can round larger whole numbers to any place.

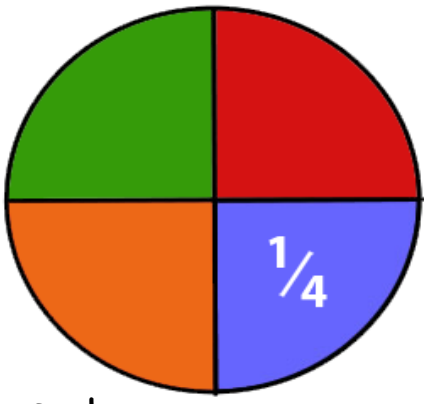
I can use what I know about place value and operations (+, −, x, /) to solve problems with larger numbers.

4.NBT.4 □ I can add and subtract larger numbers.
4.NBT.5 □ I can multiply a whole number up to four digits by a one-digit whole number.
4.NBT.5 □ I can multiply two, two-digit numbers.
4.NBT.5 □ I can illustrate and explain how to multiply larger numbers by using equations, arrays, or models.
4.NBT.6 □ I can find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors.
4.NBT.6 □ I can illustrate and explain how to divide larger numbers by using equations, arrays, or models.

Numbers & Operations (Fractions)

4th Grade—"I Can Do Math"

I can improve my understanding of fractions.



4.NF.1 □ I can explain (and show models for) why multiplying a numerator and a denominator by the same number does not change the value of a fraction.

4.NF.1 □ I can recognize and generate equivalent fractions based on my knowledge of numerators and denominators.

4.NF.2 □ I can compare two fractions with different numerators and denominators by creating common denominators or numerators or by comparing them to a benchmark fraction like one-half.

4.NF.2 □ I can recognize that comparisons of fractions are valid only when the two fractions refer to the same whole.

4.NF.3 □ I can understand a fraction a/b, with a> 1, as a sum of fractions 1/b.

4.NF.3.a □ I can understand addition and subtraction of fractions as joining and separating parts referring to the same whole.

4.NF.3.b □ I can decompose a fraction into a sum of fractions with the same denominator in more than one way and justify my work using models.

4.NF.3.c □ I can add and subtract mixed numbers with like denominators.

4.NF.3.d □ I can solve word problems involving addition and subtraction of fractions that refer to the same whole and that have like denominators.

Numbers & Operations (Fractions) (cont.)

4th Grade—"I Can Do Math"

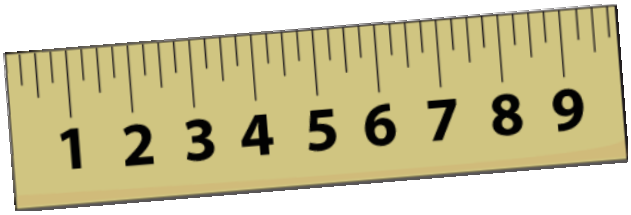
I can build fractions from unit fractions.

4.NF.4 □ I can apply my understanding of multiplication to multiply a fraction by a whole number.
4.NF.4.a □ I can understand a fraction a/b as a multiple of 1/b (e.g. I know that 5/4 is the product of 5 x 1/4).
4.NF.4.b □ I can understand a multiple of a/b as a multiple of 1/b and use that knowledge to multiply a fraction by a whole number (e.g. n x (a/b) =) n x a/b). .
4.NF.4.c □ I can solve word problems involving multiplication of a fraction by a whole number.

I can understand how fractions and decimals are related

4.NF.5 □ I can show a fraction with a denominator of 10 as an equivalent fraction with a denominator of 100 in order to add the two fractions.
4.NF.6 □ I can use decimals to show fractions with denominators of 10 and 100.
4.NF.7 □ I can compare two decimals to hundredths by reasoning about their size and realizing that the comparison is only true if the two decimals refer to the same whole.
4.NF.7 □ I can compare decimals using the symbols >, =, and <, and justify the comparisons by using models.

Measurement & Data



4th Grade—"I Can Do Math"

I can solve problems involving measurement and conversion of measurements.

4.MD.1 □ I can show that I know the relative size of measurement units within one system of units (including km, m, cm, kg, g, lb, oz, l, ml, hr, min, sec).
4.MD.1 □ I can show the measurements in a larger unit in terms of smaller units and record those in a table.
4.MD. 2 □ I can use the four operations (+, −, x, /) to solve word problems involving measurement.
4.MD. 2.a □ I can solve measurement problems involving simple fractions and decimals.
4.MD. 2.a □ I can solve problems that ask me to express measurements given in a larger unit in terms of a smaller unit.
4.MD. 2.b □ I can show measurement quantities using diagrams that involve a measurement scale (e.g. a number line).
4.MD. 3 □ I can use what I know about area and perimeter to solve real-world problems involving rectangles.

I can represent and interpret data.

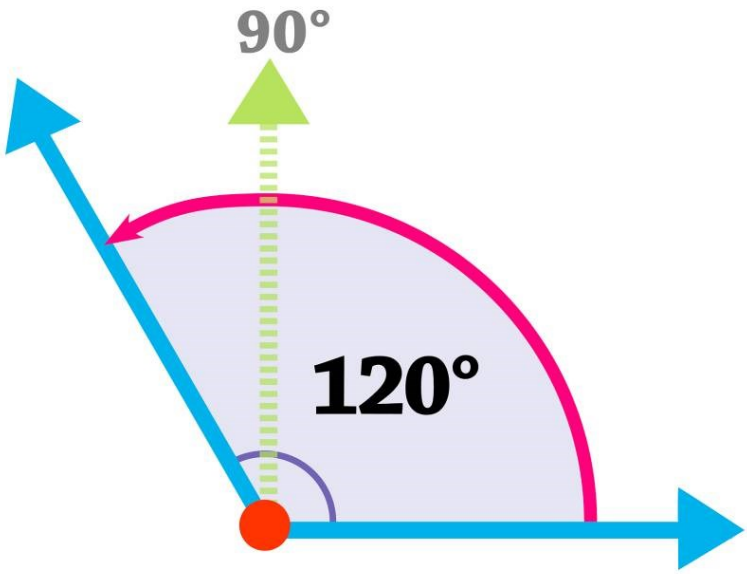
4.MD. 4 □ I can make a line plot to show a data set of measurements involving fractions.
4.MD. 4 □ I can solve problems involving addition and subtraction of fractions by using information shown in line plots.

Measurement & Data (cont.)

4th Grade—"I Can Do Math"

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

4.MD.5 □ I can recognize angles as geometric shapes where two rays share a common endpoint.
4.MD. 5. a □ I can understand concepts of angle measurement.
4.MD. 5. a □ I can understand that angles are measured with reference to a 360 degree circle, with it's center at the common endpoint of the rays.
4.MD. 5. b □ I can understand that an angle that turns through n one-degree angles is said to have an angle measurement of n degrees.
4.MD. 6 □ I can use a protractor to measure and sketch angles in whole-number degrees.
4.MD. 7 □ I can solve real-world and mathematical addition and subtraction problems to find unknown angles.



Geometry

4th Grade—"I Can Do Math"

I can use geometry to help me understand math.

4.G.1 □ I can identify and draw points, lines, line segments, rays, angles, and perpendicular/ parallel lines.

4.G.2 □ I can classify two-dimensional shapes based on what I know about their geometrical attributes.

4.G.2 □ I can recognize and identify right triangles.

4.G.3 □ I can recognize, identify, and draw lines of symmetry.