



## “I Can” Mascoma Standards 4<sup>th</sup> Grade Math

### I Can Use the Four Operations to Help Me Understand Math

- ✓ I can understand that multiplication fact problems can be seen as comparisons of groups (e.g.,  $24 = 4 \times 6$  can be thought of as 4 groups of 6 or 6 groups of 4). (4.OA.1)
- ✓ I can multiply or divide to solve word problems by using drawings or writing equations and solving for a missing number. (4.OA.2)
- ✓ I can use what I know about addition, subtraction, multiplication and division to solve multi-step word problems involving whole numbers. (4.OA.3)
- ✓ I can represent word problems by using equations with a letter standing for the unknown number. (4.OA.3)
- ✓ I can determine how reasonable my answers to word problems are by using estimation, mental math and rounding. (4.OA.3)
- ✓ I can find all factor pairs for a number from 1 to 100. (4.OA.4)
- ✓ I can determine whether a given whole number up to 100 is a prime or composite number. (4.OA.4)
- ✓ I can create a number or shape pattern that follows a given rule. (4.OA.5)
- ✓ I can notice different features of a pattern once it is created by a rule. (4.OA.5)

#### PRIME NUMBERS

$$2 \Rightarrow 1 \cdot 2 = 2$$

$$5 \Rightarrow 1 \cdot 5 = 5$$

$$17 \Rightarrow 1 \cdot 17 = 17$$

$$199 \Rightarrow 1 \cdot 199 = 199$$

#### COMPOSITE NUMBERS

$$6 \Rightarrow 1 \cdot 6; 2 \cdot 3$$

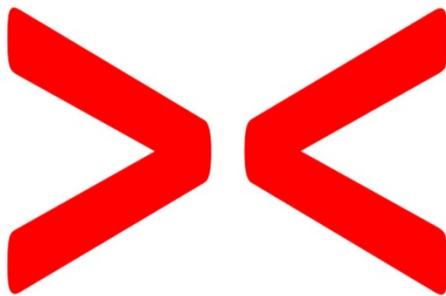
$$14 \Rightarrow 1 \cdot 14; 2 \cdot 7$$

$$30 \Rightarrow 1 \cdot 30; 2 \cdot 15; 3 \cdot 10$$

$$105 \Rightarrow 1 \cdot 105; 3 \cdot 35; 5 \cdot 21$$

## I Can Use Number Sense and Place Value to Help Me Understand Math

- ✓ I can recognize that in multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. (4.NBT.1)
- ✓ I can read and write larger whole numbers using numerals, words and in expanded form. (4.NBT.2)

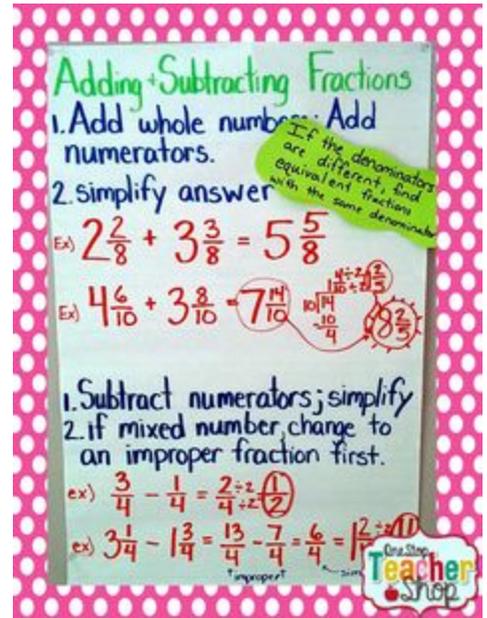


- ✓ I can compare two large numbers using symbols to show the comparison. (4.NBT.2)
- ✓ I can round large whole numbers to any place. (4.NBT.3)
- ✓ I can add and subtract large numbers. (4.NBT.4)
- ✓ I can multiply a whole number up to four digits by a one-digit whole number. (4.NBT.5)
- ✓ I can multiply two two-digit numbers. (4.NBT.5)
- ✓ I can find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors. (4.NBT.6)

## I Can Use Fractions to Help Me Understand Math

- ✓ 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 compare two fractions with different numerators and different 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.2)
- ✓ I can compare fractions using symbols and justify the comparison by using models. (4.NF.2)
- ✓ I can understand that improper fractions have a greater numerator than denominator. (4.NF.3)

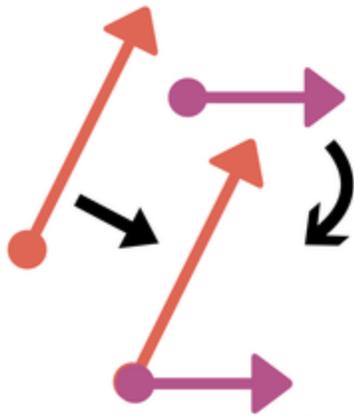
- ✓ I can understand addition and subtraction of fractions as joining and separating parts referring to the same whole. (4.NF.3)
- ✓ I can decompose a fraction into a sum of fractions with the same denominator. (4.NF.3)
- ✓ I can add and subtract mixed numbers with like denominators. (4.NF.3)
- ✓ I can solve word problems involving addition and subtraction of fractions with like denominators. (4.NF.3)
- ✓ I can multiply a fraction by a whole number. (4.NF.4)
- ✓ I can solve word problems involving multiplication of a fraction by a whole number. (4.NF.4)
- ✓ 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.5)
- ✓ I can use decimals to show fractions with denominators of 10 and 100. (4.NF.6)
- ✓ I can compare two decimals to hundredths by reasoning about their size. (4.NF.7)



### Measurement and Data to Help Me Understand Math

- ✓ I can show that I know the relative size of measurement units within a single system. (4.MD.1)
- ✓ I can show the measurements of a larger unit in terms of smaller units and record these in a table. (4.MD.1)
- ✓ I can use the four operations (+, -, x, ,,i) to solve word problems involving measurement; including simple fractions and decimals. (4.MD.2)
- ✓ I can use what I know about area and perimeter to solve real world problems involving rectangles. (4.MD.3)

- ✓ I can make a line plot to show measurements involving fractions. (4.MD.4)
- ✓ I can solve problems involving addition and subtraction of fractions by using information presented in line plots. (4.MD.4)



angle: 2 rays with the same endpoint

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- ✓ I can recognize angles as geometric shapes where two rays share a common endpoint. (4.MD.5)
- ✓ I can understand that angles are measured with reference to a circle, with its center at the common endpoint of the rays. (4.MD.5)
- ✓ I can use a protractor to measure angles in whole-number degrees. (4.MD.6)
- ✓ I can solve addition and subtraction problems involving angles. (4.MD.7)

### I Can Use Geometry to Help Me Understand Math

- ✓ I can identify and draw points, lines, line segments, rays, angles and perpendicular & parallel lines. (4.G.1)
- ✓ 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.2)
- ✓ I can recognize and draw lines of symmetry. (4.G.3)

