**Helpful Math Tips:**

**Place Value Vocabulary:**

Standard Form: 5,491

Word Form: Five thousand, four hundred ninety-one

Expanded Form: 5,000 + 400 + 90 + 1

**Rounding Rules:**

Find the number you are rounding to. (thousands, hundreds, tens)

Look next door.

If the number is 5 or more add one more, 4 or less just ignore (5 or more round up, 4 or less round down)

**Examples of Addition Properties:**

Commutative Property: Changing the order of the addends does not change the sum. 3 + 2 = 2 + 3

Associative Property: Changing the grouping of the addends does not change the sum.  (4 + 6) + 3 = 4 + (6 + 3)

Identity Property: The sum of any addend and 0 is that addend. 7 + 0 = 7

**Subtraction Poem:**

If there is more on the top, don't stop

If there is more on the floor, go next door for 10 more.

If the numbers the same, zeros the name.

Multiplication:

An **array** is a picture that is made of rows and columns to represent a multiplication fact.

 3 x 4 = 12       xxxx

                     xxxx

                     xxxx

Repeated Addition: 7 + 7 + 7 + 7 = 7 x 4

**Properties of Multiplication:**

Commutative Property (Order) 4 x 6 = 6 x 4

Identity Property  5 x 1 = 5

Zero Property   6 x 0 = 0

Associative Property  (Grouping)  5 (2 x 3) = (5 x 2) x 3

Distributive Property  7 x 8 = (2x8) + (5x8)

**Fractions:**

If the numerators are the same, the fraction with the smaller denominator is the larger fraction.

If the denominators are the same, the fraction with the bigger numerator is the larger fraction.