Addition, subtraction, multiplication, and division of decimals

- **When you add or subtract decimals line up the decimal point**
- **When you multiply decimals line up numbers as normal(not decimal points) and count how many numbers are behind a decimal to find placement**
- **When you divide, you must divide by a whole number. If you move the decimal in the divisor you must move the decimal in the dividend**

Addition, subtraction, multiplication, and division of fractions

- **When you add or subtract fractions you must find a common denominator and reduce your answer.**
- **When you multiply or divide you must make all mixed numbers into an improper fraction and then proceed.**
- **If you are dividing make sure to find the reciprocal of the second fraction and multiply.**

Classifying numbers as natural, whole, integer, rational, and irrational
- **Natural numbers – 0,1,2,3,4,5….. whole numbers includes zero**
- **Whole numbers – 1,2,3,4,5….**
- **Integers -1, 0, -2, 3, 4, ….whole numbers including negative**
- **Rational – any number that can be written as a fraction , decimals that terminate or repeat, includes whole numbers, integers, and natural numbers, .5, ½ , .343434…**
- **Irrational – non terminating, non repeating decimals, .237425720572…**

Putting numbers in scientific notation and standard form

$3.5 \times 10^4 = 35,000$
$4,350,000 \rightarrow 4.35 \times 10^6$

Greatest Common Factor

16 = 1,2,4,8,16
24 = 1, 2,3, 4, 6, 8, 12, 24
GCF = 8
List factors for both and find the Greatest one that they have in common