

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

### Fractional Math (Continued)

#### Subtracting Fractions:

1. Remember, to subtract fractions, the denominators must be the same.

Ex:  $\frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$

2. You must convert denominators to be able to add. To do so, you must first find a common factor that both numbers go into.

**Converting one denominator:**

Ex:  $\frac{3}{4} - \frac{1}{2} = ?$

**First:** Find common factor = 2 (because 2 goes into both 2 and 4)

**Second:** How many times does 2 go into 4? 2

**Third:** Multiply 2 x 1. This is the common factor multiplied by numerator of the fraction being converted.

The equation would then read:  $\frac{3}{4} - \frac{2}{4} =$

- Fourth:** Subtract the numerators and reduce the fraction if possible.

Answer:  $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$

#### Multiplying Fractions:

1. Simplify the fractions if not in lowest terms.
2. Multiply the numerators of the fractions to get the new numerator.
3. Multiply the denominator of the fractions to get the new denominator.

Ex:  $\frac{3}{8} \times \frac{3}{4} = \frac{9}{32}$

#### Dividing Fractions:

1. Change the right hand number to its reciprocal.

Ex:  $\frac{3}{4}$  reciprocal is  $\frac{4}{3}$

2. Follow the procedure for multiplication

Ex:  $\frac{9}{16} \div \frac{1}{3}$

$\frac{9}{16} \times \frac{3}{1} = \frac{27}{16} = 1 \frac{11}{16}$