# Math 7 Notes (Section 4-3) **Adding & Subtracting Like Fractions**

### Recall:

\*To add or subtract fractions you must have a Common denominator

\* Addition Rules:

$$\begin{array}{ccc} & & & \text{Same sign} \\ -\zeta + -3 & = & -9 \end{array}$$

Attack sign

\*Subtraction = Addition of the additive inverse larger abs. value

Subtraction = Addition of the additive involve 
$$-6-3$$

Find each sum or difference. Write answer in simplest form.

$$\frac{2}{15} - \frac{11}{15}$$

$$\frac{-9 \div 3}{15 \div 3}$$

$$-\frac{5}{9} - \frac{2}{9}$$

$$\frac{-5+-2}{9}$$

$$\left(\begin{array}{c} \overline{7} \\ \overline{q} \end{array}\right)$$

Find each sum or difference. Write answer in simplest form.

$$-\frac{6}{7} + \left(-\frac{5}{7}\right)$$



$$\frac{4}{5} + \left(-\frac{3}{5}\right)$$

$$\left(\frac{1}{5}\right)$$

Evaluate each expression. 
$$a = -\frac{5}{12}$$
  $b = \frac{1}{12}$   $c = -\frac{7}{12}$ 

$$a + b + c$$

$$a - c$$

$$\frac{-5}{12} + \frac{1}{12} + \frac{-7}{12}$$

$$\frac{-5+1+7}{12}$$

$$\frac{-5+1+^{-7}}{12}$$

**Evaluate** each expression.  $\mathbf{a} = -\frac{5}{12}$   $\mathbf{b} = \frac{1}{12}$   $\mathbf{c} = -\frac{7}{12}$ 

$$\frac{-7+-1}{12}$$

a + c

### Word Problems:

1) A recipe calls for  $\frac{5}{8}$  teaspoons of cinnamon and  $\frac{3}{8}$  teaspoons of baking soda.

How many more teaspoons of cinnamon are used than baking soda?



## Word Problems:

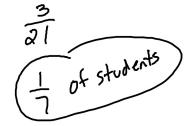
2) Sara ran  $\frac{3}{4}$  miles on Saturday and  $\frac{3}{4}$  miles on Sunday. How many miles did she run on the weekend?



### Word Problems:

3) In Mr. Easton's block C math class,  $\frac{13}{21}$  of the students got an A on their math test. In his E block class,  $\frac{16}{21}$  of the students got an A. What fraction more of the students got an A in Mr. Easton's E period class than in his C period class?

$$\frac{16}{21} - \frac{13}{21}$$



$$\begin{array}{c|c}
-\frac{5}{9} - \frac{7}{9} & -\frac{1}{12} + \frac{5}{12} \\
-\frac{5}{12} + \frac{7}{12} + \frac{5}{12} + \frac{5}{12} \\
-\frac{7}{12} + \frac{1}{12} + \frac{5}{12} \\
-\frac{7}{12} + \frac{5}{12} + \frac{5}{12} \\
-\frac{7}{12} + \frac{5}{12} + \frac{5}{12} + \frac{5}{12} \\
-\frac{7}{12} + \frac{5}{12} + \frac{5}{12} + \frac{5}{12} \\
-\frac{7}{12} + \frac{5}{12} + \frac{5}{12}$$