## **Subtracting Fractions**

Subtracting fractions is easy when you have common denominators.

 $X \longleftarrow$  The number on the top is the "numerator."



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

The denominator in both numbers is 4. All we have to do is subtract the numerators.

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

For each problem below, follow the steps used in the example to find your solution. Be sure to reduce your fraction to its lowest terms.

$1) 4 1_{-2}$	$_{5}$ 15 _ 10 _ 2
$1)\frac{1}{8} - \frac{1}{8} = \frac{1}{8}$	$\frac{3}{25} - \frac{1}{25} - \frac{1}{25}$

$$2)\frac{5}{10} - \frac{3}{10} = ? \qquad \qquad 6)\frac{25}{50} - \frac{5}{50} = ?$$

3) 
$$\frac{9}{12} - \frac{6}{12} = ?$$
 7)  $\frac{9}{63} - \frac{6}{63} = ?$ 

4) 
$$\frac{8}{15} - \frac{3}{15} = ?$$
 8)  $\frac{30}{100} - \frac{20}{100} = ?$ 

## **Subtracting Fractions**

Let's learn subtracting fractions with uncommon denominators!



-If you want to subtract two fractions together, both fractions must have the
same or "common" denominator.

-A common denominator is a shared multiple of the denominators in two or more fractions.

Example: 
$$\frac{2}{3} - \frac{1}{9} = ?$$

-The first step in solving this equation is to find the common denominator. -3 is a multiple of 9;  $3 \times 3 = 9$ . We have found our common denominator, which is 9. -If we multiply the denominator by 3, we must multiply the numerator by 3 as well. -Our new equation and result will look like this:

$$\frac{3 \times 2}{3 \times 3} - \frac{3}{9} = \frac{6}{9} - \frac{3}{9} = \frac{3}{9} = \frac{1}{3}$$

For each problem below, follow the steps used in the example to find your solution. Be sure to reduce your fraction to its lowest terms.

1) 
$$\frac{2}{4} - \frac{2}{5} = ?$$
 5)  $\frac{28}{25} - \frac{5}{5} = ?$ 

2) 
$$\frac{2}{3} - \frac{3}{6} = ?$$
 6)  $\frac{6}{6} - \frac{1}{9} = ?$ 

$$4)\frac{16}{15} - \frac{4}{5} = ? 8)\frac{4}{8} - \frac{1}{2} = ?$$