## **Fraction Word Problems:**

## Subtracting with Unlike Denominators

When you subtract fractions with unlike denominators, first you need to make the denominators equal. Example:

$$\frac{3}{4} - \frac{1}{5} \leftarrow \frac{\text{numerator}}{\text{denominator}}$$

- 1. Multiply each fraction by the other fraction's denominator.
- Multiply both the numerator and the denominator of  $\frac{1}{5}$  by 4.  $\frac{1}{5}$  x  $\frac{4}{4}$  =  $\frac{4}{20}$   $\leftarrow$  denominator
- 2. Now you have  $\frac{15}{20}$  and  $\frac{4}{20}$ . Subtract them.

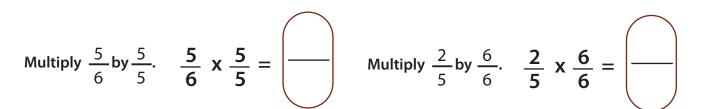
$$\frac{15}{20} - \frac{4}{20} = \frac{11}{20}$$

Solve the word problems by subtracting fractions.



The puppy is  $\frac{5}{6}$  of a foot tall and the kitten is  $\frac{2}{5}$  of a foot tall. How much taller is the puppy than the kitten?

1. Multiply each fraction by the other fraction's denominator.



2. Now you have  $\bigcirc$  and  $\bigcirc$  3. Subtract them.  $\bigcirc$   $\bigcirc$   $\bigcirc$ 

Read the question below and use another piece of paper to find the answer. Show your work.

The puppy ate  $\frac{3}{4}$  of a carton of milk and the kitten ate  $\frac{5}{7}$  of a carton of milk.

How much more did the puppy eat?