Fractions Fraction Word Problems: Subtracting with Unlike Denominators

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

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

- 1. Multiply each fraction by the other fraction's denominator.
- Multiply both the numerator and the denominator of $\frac{3}{4}$ by 5. $\frac{3}{4} \times \frac{5}{5} = \frac{15}{20}$ Notice that now the denominator is equal to 20. (*Remember: any number over itself is equal to 1! Since we multiplied*

by the equivalent of 1, $\frac{3}{4}$ is equal to $\frac{15}{20}$.)

• Multiply both the numerator and the denominator of $\frac{1}{5}$ by 4. $\frac{1}{5}$ x $\frac{4}{4} = \frac{4}{20}$ denominator Notice that now the denominator is equal to 20.

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.



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? The puppy drank $\frac{1}{28}$ more milk than the kitten.