

Fraction Word Problems

Multiplying Fractions with Fractions

When you multiply a fraction with a fraction in a word problem, first, you must write the multiplication equation.

Example: $\frac{1}{4}$ of Jasper's marbles are green. $\frac{2}{3}$ of his green marbles were given to him by his brother. What fraction of Jasper's marbles are green marbles given to him by his brother?

1. Write multiplication equation. $\frac{1}{4} \times \frac{2}{3}$

2. Multiply the numerator with numerator, multiply denominator with denominator.

$$\frac{1}{4} \times \frac{2}{3} \begin{array}{l} \leftarrow \text{numerator} \\ \leftarrow \text{denominator} \end{array} = \frac{1 \times 2}{4 \times 3} = \frac{2}{12}$$



Solve the word problems by multiplying fractions.

$\frac{2}{5}$ of Ashley's fruit are strawberries. $\frac{1}{4}$ of the strawberries are chocolate covered.

What fraction of Ashley's fruit are chocolate-covered strawberries?

1. Write the multiplication equation.

$$\frac{\boxed{2}}{\boxed{5}} \times \frac{\boxed{1}}{\boxed{4}}$$

2. Multiply the numerator with the numerator, multiply the denominator with the denominator.

$$\frac{\boxed{2}}{\boxed{5}} \times \frac{\boxed{1}}{\boxed{4}} = \frac{\boxed{2}}{\boxed{20}}$$

$\frac{2}{3}$ of Mark's tea is white tea. $\frac{1}{2}$ of Mark's white tea was bought from England.

What fraction of Mark's tea came from England?

$\frac{1}{3}$ of Mark's tea is white tea from England.