

## **Fraction Word Problems**

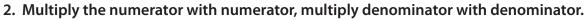
## **Multiplying Fractions with Fractions**

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. 
$$\frac{1}{4} \times \frac{2}{3}$$



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

$$=$$
  $\frac{1 \times 2}{4 \times 3}$   $=$   $\frac{2}{12}$ 



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?



$$\begin{bmatrix} 2 \\ \hline 5 \end{bmatrix} \times \begin{bmatrix} 1 \\ \hline 4 \end{bmatrix}$$

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

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

$$\frac{2}{3}$$
 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.