

Multiply a Mixed Number by a Whole Number

Name _____

Review

You can use decomposition and the Distributive Property to multiply a mixed number by a whole number.

$$3 \times 2\frac{5}{6} = ?$$

$$\begin{aligned} 3 \times 2\frac{5}{6} &= 3 \times (2 + \frac{5}{6}) \\ &= (3 \times 2) + (3 \times \frac{5}{6}) \\ &= 6 + \frac{15}{6} \\ &= 6\frac{15}{6} \\ &= 8\frac{3}{6} \end{aligned}$$

What are the missing values that complete the equation?

$$1. \quad 4 \times 2\frac{3}{10} = 4 \times (2 + \frac{\boxed{}}{\boxed{}})$$

$$= (4 \times 2) + (4 \times \frac{\boxed{}}{\boxed{}})$$

$$= 8 + \frac{\boxed{}}{\boxed{}}$$

$$= 8\frac{\boxed{}}{\boxed{}}$$

$$= 9\frac{\boxed{}}{\boxed{}}$$

$$2. \quad 2 \times 3\frac{5}{6} = 2 \times (3 + \frac{\boxed{}}{\boxed{}})$$

$$= (2 \times 3) + (2 \times \frac{\boxed{}}{\boxed{}})$$

$$= 6 + \frac{\boxed{}}{\boxed{}}$$

$$= 6\frac{\boxed{}}{\boxed{}}$$

$$= 7\frac{\boxed{}}{\boxed{}}$$