

Name: Class:

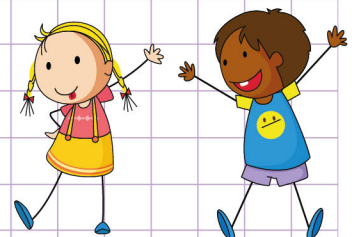
Multiply Mixed Numbers

a. Multiply. Write your answer as a mixed number.

$$4\frac{5}{7} \times 7\frac{1}{2}$$

b. Multiply. Write your answer as a mixed number.

$$12\frac{3}{4} \times 2\frac{3}{11}$$



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Multiply Mixed Numbers

a. Multiply. Write your answer as a mixed number.

Step 1: change each mixed number into an improper fraction.

$$\begin{array}{r}
 4\frac{5}{7} \times 7\frac{1}{2} \\
 \downarrow \qquad \qquad \downarrow \\
 \frac{(4 \times 7) + 5}{7} \qquad \frac{(7 \times 2) + 1}{2} \\
 \downarrow \qquad \qquad \downarrow \\
 \frac{33}{7} \qquad \qquad \frac{15}{2}
 \end{array}$$

Step 2: multiply the numerators and denominators

$$\frac{33}{7} \times \frac{15}{2} = \frac{33 \times 15}{7 \times 2} = \frac{495}{14}$$

Step 3: convert your answer into a mixed number

$$\begin{array}{r}
 \frac{495}{14} = 14 \overline{) 495} \\
 \underline{- 42} \\
 75 \\
 \underline{- 70} \\
 5
 \end{array}
 = 35R5 = 35\frac{5}{14}$$

so, $4\frac{5}{7} \times 7\frac{1}{2} = 35\frac{5}{14}$

b. Multiply. Write your answer as a mixed number.

$$\begin{aligned}
 12\frac{3}{4} \times 2\frac{3}{11} &= \frac{(12 \times 4) + 3}{4} \times \frac{(2 \times 11) + 3}{11} \\
 &= \frac{51}{4} \times \frac{25}{11} \\
 &= \frac{1,275}{44}
 \end{aligned}$$

$$\begin{array}{r}
 \frac{1,275}{44} = 28 \overline{) 1,275} \\
 \underline{- 88} \\
 395 \\
 \underline{- 352} \\
 43
 \end{array}
 = 28R43 = 28\frac{43}{44}$$

So, $12\frac{3}{4} \times 2\frac{3}{11} = 28\frac{43}{44}$

