

Name: ..... Class: .....

## Multiply Mixed Numbers

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

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

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

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

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

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

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

$$10\frac{2}{3} \times 1\frac{5}{11}$$

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

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

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

$$9\frac{9}{4} \times 5\frac{2}{11}$$

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

$$6\frac{2}{6} \times 7\frac{2}{8}$$

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Multiply Mixed Numbers

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

$4\frac{5}{7} \times 7\frac{1}{2}$  Step 1: change each mixed number into an improper fraction.

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

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

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

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

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

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

$$\frac{(12 \times 4) + 3}{4} \times \frac{(2 \times 11) + 3}{11} = \frac{51}{4} \times \frac{25}{11}$$

$$\frac{51}{4} \times \frac{25}{11} = \frac{1,275}{44}$$

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

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