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.

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

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

$3\frac{2}{5} \times 5\frac{2}{3}$

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

$18\frac{2}{5} \times 4\frac{2}{5}$

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

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

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

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

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

$15\frac{1}{5} \times 5\frac{2}{3}$

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

Multiply Mixed Numbers

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

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

$$4\tfrac{5}{7} \quad \times \quad 7\tfrac{1}{2}$$

$$\frac{(4\times7)+5}{7} \qquad \frac{(7\times2)+1}{2}$$

$$\frac{33}{7} \qquad \frac{15}{2}$$

Step 2. multiply the numerators and denominators.

$$\frac{33}{7} \quad \times \quad \frac{15}{2} \quad = \quad \frac{33\times15}{7\times2} \quad = \quad \frac{495}{14}$$

Step 3. Convert your answer into a mixed number.

$$\frac{495}{14} = 14\overline{\smash{\big)}495} \begin{array}{r} 35 \\ \hline 495 \\ -\ 42\downarrow \\ \hline 75 \\ -\ 70 \\ \hline 5 \end{array} \quad = 35R5 = 35\tfrac{5}{14}$$

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

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

$$12\tfrac{3}{4} \quad \times \quad 2\tfrac{3}{11} \quad = \quad \frac{(12\times4)+3}{4} \times \frac{(2\times11)+3}{11}$$

$$= \quad \frac{51}{4} \quad \times \quad \frac{25}{11}$$

$$= \quad \frac{1,275}{44}$$

$$\frac{1,275}{44} = 44\overline{\smash{\big)}1,275} \begin{array}{r} 28 \\ \hline 1,275 \\ -\ 88\downarrow \\ \hline 395 \\ -\ 352 \\ \hline 43 \end{array} \quad = 28R43 = 28\tfrac{43}{44}$$

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