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## 5-5

## Study Guide and Intervention

## Multiplying Fractions and Mixed Numbers

To multiply fractions, multiply the numerators and multiply the denominators.

$$
\frac{5}{6} \times \frac{3}{5}=\frac{5 \times 3}{6 \times 5}=\frac{15}{30}=\frac{1}{2}
$$

To multiply mixed numbers, rename each mixed number as a fraction. Then multiply the fractions.

$$
2 \frac{2}{3} \times 1 \frac{1}{4}=\frac{8}{3} \times \frac{5}{4}=\frac{40}{12}=3 \frac{1}{3}
$$

Exine Find $\frac{2}{3} \times \frac{4}{5}$. Write in simplest form.

$$
\begin{aligned}
\frac{2}{3} \times \frac{4}{5} & =\frac{2 \times 4}{3 \times 5} & \leftarrow & \begin{array}{l}
\text { Multiply the numerators. } \\
\\
=
\end{array} \frac{8}{15} \quad
\end{aligned} \quad \text { Multiply the denominators. }
$$

Skinner Find $\frac{1}{3} \times 2 \frac{1}{2}$. Write in simplest form.

$$
\begin{aligned}
\frac{1}{3} \times 2 \frac{1}{2} & =\frac{1}{3} \times \frac{5}{2} . & & \text { Rename } 2 \frac{1}{2} \text { as an improper fraction, } \frac{5}{2} . \\
& =\frac{1 \times 5}{3 \times 2} & & \text { Multiply. } \\
& =\frac{5}{6} & & \text { Simplify. }
\end{aligned}
$$



## Excises

Multiply. Write in simplest form.

1. $\frac{2}{3} \times \frac{2}{3}$
2. $\frac{1}{2} \times \frac{7}{8}$
3. $\frac{1}{3} \times \frac{3}{5}$
4. $\frac{5}{9} \times 4$
5. $1 \frac{2}{3} \times \frac{3}{5}$
6. $3 \frac{3}{4} \times 1 \frac{1}{6}$
7. $\frac{3}{4} \times 1 \frac{2}{3}$
8. $3 \frac{1}{3} \times 2 \frac{1}{2}$
9. $4 \frac{1}{5} \times \frac{1}{7}$
10. $\frac{7}{5} \times 8$
11. $2 \frac{1}{3} \times \frac{4}{6}$
12. $\frac{1}{8} \times 2 \frac{3}{4}$
$\qquad$
$\qquad$

## 5-5

Word Problem Practice
Multiplying Fractions and Mixed Numbers


