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## Lesson 8 Reteach

## Divide Fractions

To divide by a fraction, multiply by its multiplicative inverse or reciprocal. To divide by a mixed number, rename the mixed number as an improper fraction.

## Example

Find $3 \frac{1}{3} \div \frac{2}{9}$. Write in simplest form.

$$
\begin{aligned}
3 \frac{1}{3} \div \frac{2}{9} & =\frac{10}{3} \div \frac{2}{9} & & \text { Rename } 3 \frac{1}{3} \text { as an improper fraction. } \\
& =\frac{10}{3} \bullet \frac{9}{2} & & \text { Multiply by the reciprocal of } \frac{2}{9}, \text { which is } \frac{9}{2} . \\
& =\frac{5}{3} \bullet \frac{3}{2} & & \text { Divide out common factors. } \\
& =15 & & \text { Multiply. }
\end{aligned}
$$

## Exercises

Divide. Write in simplest form.

1. $\frac{2}{3} \div \frac{1}{4}$
2. $\frac{2}{5} \div \frac{5}{6}$
3. $-\frac{1}{2} \div \frac{1}{5}$
4. $5 \div\left(-\frac{1}{2}\right)$
5. $\frac{5}{8} \div 10$
6. $7 \frac{1}{3} \div 2$
7. $\frac{5}{6} \div 3 \frac{1}{2}$
8. $36 \div 1 \frac{1}{2}$
9. $-2 \frac{1}{2} \div(-10)$
$\qquad$
10. $5 \frac{2}{5} \div 1 \frac{4}{5}$
11. $6 \frac{2}{3} \div 3 \frac{1}{9}$
12. $4 \frac{1}{4} \div \frac{2}{8}$
13. $4 \frac{6}{7} \div 2 \frac{3}{7}$
14. $12 \div\left(-2 \frac{1}{2}\right)$
15. $4 \frac{1}{6} \div 3 \frac{1}{6}$
