Name _____ Date _____ Class _____

LESSON 4-3

Dividing Mixed Numbers

Reteach

Two numbers are **reciprocals** if their product is 1.

$\frac{7}{3}$ and $\frac{3}{7}$ are reciprocals because $\frac{7}{3} \times \frac{3}{7} = 1$.

Write a mixed number as an improper fraction to find its reciprocal.

$2\frac{3}{4}$ and $\frac{4}{11}$ are reciprocals because $2\frac{3}{4} = \frac{11}{4}$ and $\frac{11}{4} \times \frac{4}{11} = 1$.

To find $2\frac{3}{4} \div 1\frac{3}{4}$, first rewrite the mixed numbers as improper fractions.

$\frac{11}{4} \div \frac{7}{4}$

Next, rewrite the expression as a multiplication expression and replace the divisor with its reciprocal.

$\frac{11}{4} \times \frac{4}{7}$

Solve. Write your answer in simplest form.

$2\frac{3}{4} \div 1\frac{3}{4} = \frac{11}{4} \div \frac{7}{4} = \frac{11}{4} \times \frac{4}{7} = \frac{11}{7} = 1\frac{4}{7}$

Find the reciprocal.

1. $\frac{9}{14}$ _____

2. $3\frac{1}{2}$ _____

3. $10\frac{2}{3}$ _____

Complete the division. Write each answer in simplest form.

4. $3\frac{3}{5} \div 2\frac{1}{4}$

$= \frac{18}{5} \div \frac{\quad}{4}$

$= \frac{\quad}{5} \times \frac{\quad}{9}$

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5. $1\frac{1}{2} \div 1\frac{1}{4}$

$= \frac{3}{2} \div \frac{\quad}{4}$

$= \frac{\quad}{\quad} \times \frac{\quad}{\quad}$

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6. $\frac{5}{12} \div 1\frac{7}{8}$

$= \frac{\quad}{12} \div \frac{\quad}{8}$

$= \frac{\quad}{\quad} \times \frac{\quad}{\quad}$

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7. $3\frac{1}{8} \div \frac{1}{2}$ _____

8. $1\frac{1}{6} \div 2\frac{2}{3}$ _____

9. $2 \div 1\frac{1}{5}$ _____