NAME _____ DATE _____ PERIOD _____

Lesson 2 Reteach

Complex Fractions and Unit Rates

Fractions like $\frac{2}{\frac{3}{4}}$ are called complex fractions. **Complex fractions** are fractions with a numerator, denominator, or both that are also fractions.

Example 1

Simplify $\frac{2}{\frac{3}{4}}$.

A fraction can also be written as a division problem.

$\frac{2}{\frac{3}{4}} = 2 \div \frac{3}{4}$ Write the complex fraction as a division problem.

$= \frac{2}{1} \times \frac{4}{3}$ Multiply by the reciprocal of $\frac{3}{4}$, which is $\frac{4}{3}$.

$= \frac{8}{3}$ or $2\frac{2}{3}$ Simplify.

So, $\frac{2}{\frac{3}{4}}$ is equal to $2\frac{2}{3}$.

Exercises

Simplify.

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

2. $\frac{5}{\frac{3}{7}}$

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

4. $\frac{2}{\frac{4}{9}}$

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

6. $\frac{10}{\frac{7}{8}}$

7. $\frac{\frac{3}{5}}{\frac{3}{7}}$

8. $\frac{\frac{1}{6}}{\frac{5}{6}}$

9. $\frac{\frac{4}{5}}{\frac{9}{10}}$

10. $\frac{\frac{3}{5}}{\frac{3}{10}}$