Lesson 2 Reteach

Complex Fractions and Unit Rates

Fractions like $\frac{2}{3}$ 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.

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

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.

$$= \frac{8}{3} \text{ or } 2\frac{2}{3}$$
So, $\frac{2}{\frac{3}{4}}$ is equal to $2\frac{2}{3}$.

Exercises Simplify.

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

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

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.
$$\frac{\frac{7}{5}}{\frac{9}{10}}$$

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