Swift - Day 2

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

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Lesson 2 Skills Practice

Complex Fractions and Unit Rates

Simplify.

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

2. $\frac{4}{\frac{5}{8}}$

3. $\frac{4}{\frac{3}{8}}$

4. $\frac{10}{\frac{5}{12}}$

5. $\frac{8}{\frac{3}{4}}$

6. $\frac{\frac{1}{5}}{\frac{7}{10}}$

7. $\frac{\frac{2}{5}}{\frac{4}{9}}$

8. $\frac{\frac{8}{9}}{20}$

9. $\frac{\frac{5}{6}}{12}$

10. $\frac{\frac{3}{8}}{\frac{7}{12}}$

11. $\frac{\frac{7}{9}}{14}$

12. $\frac{\frac{6}{7}}{\frac{14}{15}}$

13. $\frac{\frac{8}{11}}{\frac{4}{5}}$

14. $\frac{30}{\frac{5}{7}}$

15. $\frac{\frac{6}{7}}{21}$

16. $\frac{15}{\frac{5}{9}}$

17. $\frac{\frac{1}{3}}{\frac{8}{9}}$

18. $\frac{\frac{2}{3}}{\frac{24}{25}}$