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Section A: Lessons 8-1 through 8-4

Review

Do You Know How?

Do You Understand?

Adding and Subtracting Fractions with Like Denominators (8-1)

Add or subtract. Simplify, if necessary.

1. $\frac{5}{9} + \frac{1}{9}$

2. $\frac{7}{8} - \frac{3}{8}$

3.
$$\begin{array}{r} \frac{11}{12} \\ - \frac{5}{12} \\ \hline \end{array}$$

4.
$$\begin{array}{r} \frac{3}{5} \\ + \frac{1}{5} \\ + \frac{4}{5} \\ \hline \end{array}$$

A Explain how to add fractions with like denominators.

B How do you subtract fractions with like denominators?

Least Common Denominator (8-3)

Write each pair of fractions with their LCD.

5. $\frac{7}{12}$ and $\frac{1}{4}$

6. $\frac{5}{7}$ and $\frac{1}{2}$

7. $\frac{3}{4}$ and $\frac{1}{6}$

8. $\frac{5}{6}$ and $\frac{3}{8}$

C How do you know when a number is the LCD of two fractions?

D What number is always a common denominator of two fractions?

Understanding Adding and Subtracting with Unlike Denominators (8-2)

Adding and Subtracting Fractions with Unlike Denominators (8-4)

Add or subtract. Simplify, if necessary.

You may use fraction strips or draw pictures to help.

9.
$$\begin{array}{r} \frac{3}{8} \\ + \frac{1}{4} \\ \hline \end{array}$$

10.
$$\begin{array}{r} \frac{9}{10} \\ - \frac{3}{4} \\ \hline \end{array}$$

11. $\frac{4}{5} + \frac{1}{2}$

12. $\frac{8}{15} - \frac{1}{3}$

13.
$$\begin{array}{r} \frac{1}{2} \\ + \frac{1}{4} \\ + \frac{1}{8} \\ \hline \end{array}$$

14.
$$\begin{array}{r} \frac{2}{5} \\ + \frac{3}{10} \\ + \frac{3}{5} \\ \hline \end{array}$$

E How can you tell if one of the denominators is a common denominator?

F Explain how using a common denominator greater than the LCD to add or subtract fractions will affect the answer.

G Without adding, can you tell if $\frac{3}{5} + \frac{1}{2}$ is greater than 1? Explain.