



## Review

## Do You Know How?



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

Add or subtract. Simplify, if necessary.

1.  $\frac{5}{9} + \frac{1}{9} \frac{2}{3}$

2.  $\frac{7}{8} - \frac{3}{8} \frac{1}{2}$

3. 
$$\begin{array}{r} \frac{11}{12} \\ - \frac{5}{12} \\ \hline \end{array} \frac{1}{2}$$

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

## Least Common Denominator (8-3)

Write each pair of fractions with their LCD.

5.  $\frac{7}{12}$  and  $\frac{1}{4} \frac{7}{12}, \frac{3}{12}$

6.  $\frac{5}{7}$  and  $\frac{1}{2} \frac{10}{14}, \frac{7}{14}$

7.  $\frac{3}{4}$  and  $\frac{1}{6} \frac{9}{12}, \frac{2}{12}$

8.  $\frac{5}{6}$  and  $\frac{3}{8} \frac{20}{24}, \frac{9}{24}$

## 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. 
$$\begin{array}{r} \frac{3}{8} \\ + \frac{1}{4} \frac{5}{8} \\ \hline \end{array}$$

10. 
$$\begin{array}{r} \frac{9}{10} \\ - \frac{3}{4} \frac{3}{20} \\ \hline \end{array}$$

11.  $\frac{4}{5} + \frac{1}{2} 1\frac{3}{10}$

12.  $\frac{8}{15} - \frac{1}{3} \frac{1}{5}$

13. 
$$\begin{array}{r} \frac{1}{2} \\ \frac{1}{4} \\ + \frac{1}{8} \frac{7}{8} \\ \hline \end{array}$$

14. 
$$\begin{array}{r} \frac{2}{5} \\ \frac{3}{10} \\ + \frac{3}{5} 1\frac{3}{10} \\ \hline \end{array}$$

## Do You Understand?



- A** Explain how to add fractions with like denominators. **Write the sum of the numerators over the common denominator.**
- B** How do you subtract fractions with like denominators? **Write the difference of the numerators over the common denominator.**

**C. Sample answer: A number is the LCD of 2 fractions if it is the least common multiple of the 2 denominators.**

- C** How do you know when a number is the LCD of two fractions? **See above.**
- D** What number is always a common denominator of two fractions? **The product of the denominators of the fraction**

- E** How can you tell if one of the denominators is a common denominator? **Sample answer: When it is a multiple of the other denominator**
- F** Explain how using a common denominator greater than the LCD to add or subtract fractions will affect the answer. **The answer will need to be reduced.**
- G** Without adding, can you tell if  $\frac{3}{5} + \frac{1}{2}$  is greater than 1? Explain. **Sample answer: Since 3 is more than half of 5,  $\frac{3}{5}$  is more than  $\frac{1}{2}$ . Therefore,  $\frac{3}{5} + \frac{1}{2}$  will be greater than 1.**