Lessons 6.1 - 6.2

Use fraction strips to find the sum or difference. Write your answer in simplest form.

1. $\frac{5}{8} + \frac{1}{4}$ **7/8**

2. $\frac{7}{10} - \frac{3}{5}$ **1/10**

3. $\frac{1}{9} + \frac{5}{6}$ **17/18**

4. $\frac{3}{4} - \frac{5}{8}$ **1/8**

Lesson 6.3

Estimate the sum or difference. **Possible estimates are given.**

1. $\frac{6}{10} + \frac{7}{12}$ **1**

2. $\frac{5}{12} + \frac{7}{8}$ **$1\frac{1}{2}$**

3. $1\frac{3}{8} - \frac{8}{9}$ **1/2**

Lesson 6.4

Use a common denominator to write an equivalent fraction for each fraction. **Possible answers are given.**

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

Common denominator: **6**

3/6, 2/6

2. $\frac{7}{8}, \frac{3}{10}$

Common denominator: **80**

70/80, 24/80

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

Common denominator: **12**

8/12, 9/12

Use the least common denominator to write an equivalent fraction for each fraction.

4. $\frac{1}{4}, \frac{5}{6}$

3/12, 10/12

5. $\frac{1}{2}, \frac{1}{8}$

4/8, 1/8

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

21/35, 10/35

1. $\frac{7}{8} - \frac{5}{6}$ $\frac{1}{24}$

2. $5 - 2\frac{4}{5}$ $2\frac{1}{5}$

3. $3\frac{1}{4} + 1\frac{7}{8}$ $5\frac{1}{8}$

4. $6\frac{9}{10} - 5\frac{4}{5}$ $1\frac{1}{10}$

5. $\frac{1}{3} + \frac{4}{15}$ $\frac{3}{5}$

6. $1\frac{1}{3} + \frac{2}{5}$ $1\frac{11}{15}$

7. $2\frac{3}{8} + 8\frac{5}{6}$ $11\frac{5}{24}$

8. $9\frac{1}{4} - 2\frac{5}{8}$ $6\frac{5}{8}$

Lesson 6.8

1. On the first day of the play, the auditorium was $\frac{1}{3}$ full, the second day it was $\frac{5}{12}$ full, and on the third day it was $\frac{1}{2}$ full. If this pattern continues, how full will it be on the fourth day?

   $\frac{7}{12}$ full

2. Jake set up a study schedule. The plan called for him to study $\frac{1}{4}$ hour, $\frac{5}{8}$ hour, and 1 hour on Monday, Tuesday, and Wednesday in that order. If he continues with this pattern, how long will he study on Friday?

   $1\frac{3}{4}$ hours

Lesson 6.9

1. Sierra spent $\frac{2}{3}$ of her earnings on clothes and $\frac{1}{5}$ on school supplies. She saved the rest. What fraction of her earnings did she save?

   $\frac{2}{15}$

2. Noah made $1\frac{1}{2}$ dozen blueberry muffins and $1\frac{3}{4}$ dozen lemon muffins. He needs to take 5 dozen muffins to the bake sale. How many dozen more muffins does he need to bake?

   $1\frac{3}{4}$ dozen

Lesson 6.10

Use the properties and mental math to solve. Write your answer in simplest form.

1. $\left(\frac{4}{5} + \frac{2}{3}\right) + \frac{1}{5}$

   $1\frac{2}{3}$

2. $1\frac{1}{4} + \left(\frac{3}{4} + \frac{2}{7}\right)$

   $2\frac{2}{7}$

3. $\left(\frac{1}{6} + \frac{4}{5}\right) + \frac{5}{6}$

   $1\frac{4}{5}$