7 Chapter Review

Key Words

For #1 to #4, unscramble each set of letters. Use the meanings to help you.

1. L T P L M U I E

   the product of a given number and a natural number

2. E P R P O R M I C N O A R T I F

   a fraction that has a numerator greater than the denominator

3. X D E M I M N E R U B

   a number that is made up of a whole number and a fraction

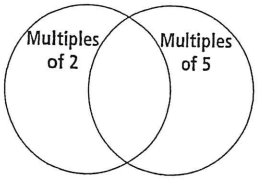
4. M O O M N C R O D E M I N A N O T

   a number that is a common multiple of the denominators of two or more fractions

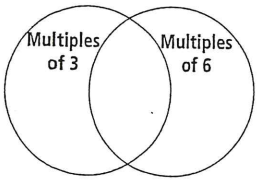
7.1 Common Denominators, pages 244–258

5. Draw Venn diagrams like the ones shown to determine the first three common multiples of each set of numbers.

a)



b)



→ only find the LCD

6. Determine a common denominator for each pair of fractions.

a) $\frac{1}{4}$ and $\frac{1}{8}$

b) $\frac{1}{3}$ and $\frac{1}{5}$

c) $\frac{1}{3}$ and $\frac{1}{4}$

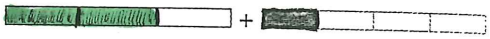
d) $\frac{1}{4}$ and $\frac{1}{10}$

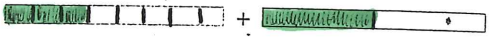
7. Determine a common denominator for the set of fractions below. Use it to make equivalent fractions. Then list the fractions in order from greatest to least.

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

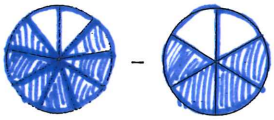
7.2 Add and Subtract Fractions With Unlike Denominators, pages 251–258

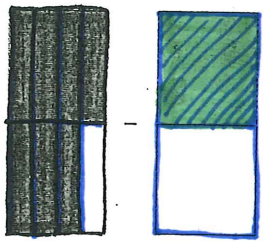
8. Write an addition statement to represent each diagram. Then add.

a) 

b) 

9. Write a subtraction statement to represent each diagram. Then subtract.

a) 

b) 

10. Add. Write each answer in lowest terms.

a) $\frac{1}{6} + \frac{1}{3}$

b) $\frac{2}{5} + \frac{1}{10}$

c) $\frac{3}{4} + \frac{3}{5}$

d) $\frac{1}{4} + \frac{1}{3}$

e) $\frac{5}{6} + \frac{3}{4}$

f) $\frac{1}{10} + \frac{2}{3}$

11. Subtract. Write each answer in lowest terms.

a) $\frac{3}{4} - \frac{1}{2}$

b) $\frac{1}{2} - \frac{1}{6}$

c) $\frac{7}{12} - \frac{1}{4}$

d) $\frac{3}{5} - \frac{1}{3}$

e) $\frac{1}{3} - \frac{3}{9}$

f) $\frac{7}{8} - \frac{7}{12}$

12. The recycling bin was $\frac{1}{4}$ full yesterday. Today the bin was filled another $\frac{1}{8}$. How full is the bin now? Include diagrams with your answer.

13. June-el ran for $\frac{5}{6}$ h yesterday. Today she ran for $\frac{2}{3}$ h. On which day did she run more, and by how much? Check your answer.

14. Michael and Hari bought a bag of pretzels to share.

a) Michael ate $\frac{1}{4}$ of the bag. Hari ate $\frac{1}{6}$ of the bag. How much of the bag did they eat altogether?

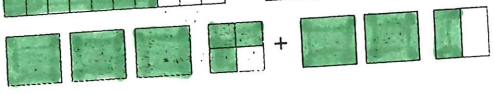
b) If Michael's brother ate $\frac{1}{3}$ of the bag, what fraction of the bag is left?

7.3 Add Mixed Numbers, pages 259–265

15. Write an addition statement to represent each diagram.

a)

b)



16. Draw a diagram for each addition statement. What is each sum?

a) $1\frac{1}{5} + 3\frac{3}{5}$ **b)** $\frac{1}{3} + 6\frac{2}{5}$ **c)** $3\frac{1}{4} + 1\frac{5}{6}$

17. Add. Write each answer in lowest terms.

a) $2\frac{1}{8} + 2\frac{3}{8}$ **b)** $3\frac{7}{10} + 1\frac{1}{5}$

c) $2\frac{1}{2} + 1\frac{5}{6}$ **d)** $4\frac{4}{7} + 5\frac{3}{7}$

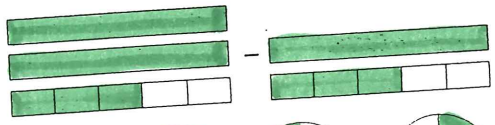
e) $5\frac{5}{6} + \frac{11}{12}$ **f)** $7\frac{7}{8} + 2\frac{5}{6}$

18. The painters finished painting $2\frac{}{12}$ rooms before lunch. After lunch, they finished another $5\frac{3}{4}$ rooms. How many rooms in total did they paint? Check your answer.

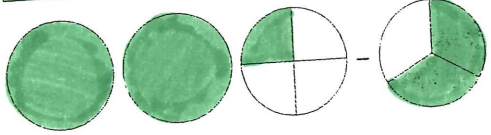
7.4 Subtract Mixed Numbers, pages 266–273

19. Write a subtraction statement to represent each diagram.

a)



b)



20. Draw a diagram for each subtraction statement.

a) $4\frac{1}{6} - 2\frac{1}{6}$ **b)** $2\frac{2}{3} - 1\frac{1}{4}$ **c)** $3\frac{7}{12} - 1\frac{5}{6}$

21. Subtract. Write each answer in lowest terms.

a) $2\frac{3}{4} - 2\frac{1}{4}$ **b)** $2\frac{1}{2} - 1\frac{3}{10}$

c) $5\frac{3}{4} - 3\frac{1}{3}$ **d)** $3\frac{1}{5} - 1\frac{7}{10}$

e) $2\frac{5}{14} - \frac{6}{7}$ **f)** $2\frac{4}{7} - 1\frac{2}{3}$

22. Stuart is making cookies. He has $2\frac{1}{4}$ bags of chocolate chips. He adds $1\frac{2}{3}$ bags to the cookie dough.

a) What fraction of the total amount of chocolate chips is left?

b) He decides to add $1\frac{5}{6}$ bags of butterscotch chips to the dough. How many bags of chips does he use in total?