## 7

## Chapter Review

## Key Words

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

## 1. LTPLMUIE

the product of a given number and a natural number
2. EPRPORMICNOARTIF
a fraction that has a numerator greater than the denominator
3. XDEMI MNERUB a number that is made up of a whole number and a fraction
4. M O OMNC R ODEMINANOT a number that is a common multiple of the denominators of two or more fractions

### 7.1 Common Denominators, pages 230-236

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

b)

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 237-244

8. Write an addition statement to represent each diagram. Then add.
a) $\qquad$ $+$
b) $\qquad$ $+$
$\qquad$
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 $\frac{5}{6} \mathrm{~h}$ yesterday. Today she ran for $\frac{2}{3} \mathrm{~h}$. 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 245-251

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 $2 \frac{5}{12}$ 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 252-259

19. Write a subtraction statement to represent each diagram.
a)
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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?
