

## 1.1 Find the answers.

1. 
$$\begin{array}{r} 81,652 \\ 32,971 \\ + 3,500 \\ \hline \end{array}$$

2.  $14.2 + 1.279$

3.  $60.942 + 25$

4. 
$$\begin{array}{r} 7,400 \\ - 4,826 \\ \hline \end{array}$$

5.  $254 - 26.7$

6.  $348.9 - 287.954$

7. 
$$\begin{array}{r} 421 \\ \times 85 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 2.429 \\ \times 53 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 54.34 \\ \times 0.47 \\ \hline \end{array}$$

10.  $22 \overline{)11,594}$

11.  $38 \overline{)262.58}$

12.  $15.2 \overline{)189.544}$

## 1.3–1.4 Factor each number using division by primes. Write the prime factorization using exponents.

13. 120

14. 189

15. 400

## 1.5 Multiply or divide by powers of 10.

16.  $65 \times 100$

17.  $0.0241 \times 1,000$

18.  $72,381 \div 10$

19.  $1.325 \div 10,000$

20.  $6.47 \times 100$

21.  $34.2 \div 1,000$

**1.6 Simplify using order of operations.**

22.  $3 \times 4 + 10 \div 2$

23.  $4(3 - 2) + 9$

24.  $3 \times 5^2 - 20 + 5$

**1.7–1.8 Find the (a) GCF and (b) LCM for each group of numbers.**

25. 44 and 12

(a) GCF = \_\_\_\_\_

(b) LCM = \_\_\_\_\_

26. 15, 20, and 45

(a) GCF = \_\_\_\_\_

(b) LCM = \_\_\_\_\_

**1.9 Write an equivalent fraction with the given denominator.**

27.  $\frac{3}{8} = \frac{?}{24}$

28.  $\frac{27}{15} = \frac{?}{30}$

29.  $\frac{11}{13} = \frac{?}{52}$

**1.9 Reduce each fraction to lowest terms.**

30.  $\frac{18}{40}$

31.  $\frac{15}{100}$

32.  $\frac{24}{42}$

**1.10 Find the answers.**

33. 
$$\begin{array}{r} \frac{5}{8} \\ + \frac{7}{8} \\ \hline \end{array}$$

34. 
$$\begin{array}{r} 4\frac{1}{2} \\ + 3\frac{1}{4} \\ \hline \end{array}$$

35. 
$$\begin{array}{r} \frac{5}{6} \\ + \frac{7}{10} \\ \hline \end{array}$$

36. 
$$\begin{array}{r} 18\frac{7}{42} \\ - 9\frac{12}{42} \\ \hline \end{array}$$

37. 
$$\begin{array}{r} 5\frac{4}{9} \\ - 2\frac{3}{4} \\ \hline \end{array}$$

38.  $\frac{7}{8} \times \frac{2}{3}$

39.  $7\frac{1}{5} \times 4\frac{3}{8}$

40.  $\frac{3}{10} \div \frac{1}{5}$

41.  $\frac{1}{8} \div 2$

**1.11 Write each fraction as a decimal.**

42.  $\frac{3}{8}$

43.  $\frac{2}{15}$

44.  $\frac{3}{4}$

**1.12 Express as a ratio in lowest terms.**

45. 3 baskets in 2 minutes

46. 9 miles in 18 minutes

47. 200 students for every 10 teachers

48. 26 miles per gallon of gasoline

**SECTION 1.1**

Identify the (a) place and (b) value of the underlined digit.

1. 954,64932

(a) \_\_\_\_\_

(b) \_\_\_\_\_

2. 289,704,862

(a) \_\_\_\_\_

(b) \_\_\_\_\_

3. 4,582.1065

(a) \_\_\_\_\_

(b) \_\_\_\_\_

4. 3,961.59426

(a) \_\_\_\_\_

(b) \_\_\_\_\_

5. 501,477.34

(a) \_\_\_\_\_

(b) \_\_\_\_\_

6. 265.9432

(a) \_\_\_\_\_

(b) \_\_\_\_\_

7. 8,459,234.1

(a) \_\_\_\_\_

(b) \_\_\_\_\_

8. 52,962.23471

(a) \_\_\_\_\_

(b) \_\_\_\_\_

Complete the rounding chart. Return to the given number each time to round.

	Number to be Rounded	Thousands	Tens	Tenths	Hundredths
9.	97,234,895.3874				
10.	45,287.59285				
11.	318,752.9673				
12.	7,093,239.8126				
13.	99,694.1507				
14.	102,498,537.25583				