

CHAPTER 1

Practice 1-1

Write in expanded form.

- 1a. 83,007,100 b. 5.008407

Round each number to its greatest place (nonzero place for decimals) or to the nearest cent.

- 2a. 67,824 b. \$18.375 c. 8.0957

Order from least to greatest.

3. 47,396,000; 47,963,000; 47,369,000
 4. 0.2954; 0.0298; 0.29504; 0.29054

Estimate the sum or difference.

- 5a. $\begin{array}{r} 27.14 \\ + 31.762 \\ \hline \end{array}$ b. $\begin{array}{r} 0.275 \\ + 3.8 \\ \hline \end{array}$ c. $\begin{array}{r} 43.09 \\ - 17.8 \\ \hline \end{array}$

Use a related sentence to find the missing number or decimal.

- 6a. $n + 86 = 132$ b. $n - 0.03 = 0.7$

CHAPTER 2

Practice 2-1

Write each product in exponential form.

1. $4 \times 4 \times 4$ 2. $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$
 3. $10 \times 10 \times 10 \times 10 \times 10 \times 10$
 4. $200 \times 200 \times 200 \times 200$

Find the product.

- 5a. 40×700 b. 500×8000 c. 186×300
 6a. 508×720 b. 709×5309 c. $650 \times \$38.75$
 7a. $\begin{array}{r} 917 \\ \times 38 \\ \hline \end{array}$ b. $\begin{array}{r} 8236 \\ \times 79 \\ \hline \end{array}$ c. $\begin{array}{r} \$795.03 \\ \times 28 \\ \hline \end{array}$
 8a. $\begin{array}{r} 4752 \\ \times 809 \\ \hline \end{array}$ b. $\begin{array}{r} 30,817 \\ \times 450 \\ \hline \end{array}$ c. $\begin{array}{r} \$39.87 \\ \times 506 \\ \hline \end{array}$
 9a. 1000×0.463 b. $910 \times 546,019$

Estimate the product.

- 10a. 917×380 b. 6.24×11.86 c. 5477×3819

Answers

- 1a) _____
 b) _____
 2a) _____
 b) _____
 c) _____
 3. _____
 4. _____
 5a) _____
 b) _____
 c) _____
 6a) _____
 6b) _____

Answers

- 1) _____
 2) _____
 3) _____
 4) _____
 5)a) _____ b) _____ c) _____
 6)a) _____ b) _____ c) _____
 7)a) _____
 8)a) _____
 9)a) _____
 10)a) _____ b) _____ c) _____

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CHAPTER 3

Practice 3-1

Estimate the quotient.

1a. $31 \overline{)3371}$ b. $297 \overline{)6143}$

2a. $87 \overline{)\$180,000}$ b. $117 \overline{)\$54,000}$

Divide. Use R to write remainders.

3a. $40 \overline{)1200}$ b. $200,000 \div 400$

4a. $5 \overline{)7826}$ b. $9 \overline{)3618}$ c. $3 \overline{)\$75.21}$

5a. $29 \overline{)5007}$ b. $82 \overline{)6173}$ c. $12 \overline{)4624}$

6a. $15 \overline{)\$2208.75}$ b. $326 \overline{)1313}$

7a. $730 \overline{)25,550}$ b. $417 \overline{)12,510}$

Evaluate each expression.

8a. $3 \cdot x \cdot 4$, when $x = 6$ b. $425 \div y$, when $y = 5$

9a. $56 \cdot 3201$ b. $0.5 \times 6 \times 20.7$

Answers.

1a) _____

2a) _____

3a) _____

4a) _____

5a) _____

6a) _____

7a) _____

8a) _____

9a) _____

Answers.

CHAPTER 4

Practice 4-1

Compute.

1a. $3 + 7 \times 9 - 5$ b. $(8 \div 2) \times (7 + 9) \times 10^2$

2a. $9 \times 6 \div 3 + 17 - 8$ b. $39 - 3 \times 4 \div 3$

Translate as an algebraic expression or equation.

3. the difference between y and 16

4. c divided by 4 is 10.

Evaluate each expression.

5a. $27 + 3ab^2$, when $a = 4$ and $b = 2$ b. $(x - 1)^2 + y \div z$, when $x = 6$, $y = 25$, and $z = 5$

Solve and check.

6a. $x + 9.373 = 21.627$ b. $t - 360.48 = 721.37$

7a. $c \times 36 = 9$ b. $d \div 3 = 1.8941$

1a) _____

b) _____

2a) _____

b) _____

3) _____

4) _____

5a) _____

b) _____

6a) _____

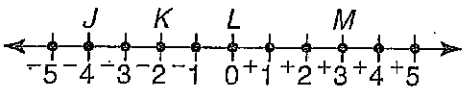
6b) _____

7a) _____

CHAPTER 5

Practice 5-1

Write the integer that matches each letter on the number line.



- 1a. J b. K c. L d. M

Express each as an integer.

- 2a. loss of 8 lb b. 7 degrees warmer

- 3a. 50 ft below sea level b. \$25 raise

Name the opposite of each integer.

- 4a. -5 b. +8 c. -16 d. +7

Compare. Write < or >.

- 5a. $+6$? -6 b. -3 ? -7
 6a. 0 ? -2 b. -5 ? $+1$
 7a. -6 ? -1 b. $+8$? -10

Answers.

1a) _____

b) _____

c) _____

d) _____

2a) _____

2b) _____

3a) _____

3b) _____

4a) _____

5a) _____

b) _____

b) _____

c) _____

6a) _____

d) _____

b) _____

Answers.

Practice 6-2

Find the GCF of each pair of numbers.

- 1a. 8 and 12 b. 15 and 24

- 2a. 10 and 45 b. 7 and 28

Find the LCM of each pair of numbers.

- 3a. 7 and 10 b. 8 and 12

- 4a. 6 and 15 b. 14 and 42

Rename as an improper fraction.

- 5a. $3\frac{2}{3}$ b. $9\frac{7}{10}$ c. $5\frac{1}{4}$

Rename as a fraction in simplest form.

- 6a. 0.54 b. 0.05 c. 0.75

Rename as a decimal.

- 7a. $4\frac{7}{8}$ b. $\frac{1}{6}$ c. $5\frac{2}{3}$

- 8a. $\frac{9}{16}$ b. $3\frac{4}{100}$ c. $6\frac{1}{8}$

1a) _____

b) _____

2a) _____

2b) _____

3a) _____

3b) _____

4a) _____

4b) _____

5a) _____

b) _____

c) _____

6a) _____

b) _____

c) _____

7a) _____

8a) _____

b) _____

b) _____

c) _____

c) _____

CHAPTER 7

Practice 7-1

Add or subtract. Write each answer in simplest form.

1a. $\frac{5}{9} + \frac{4}{9}$ b. $\frac{7}{8} - \frac{5}{8}$ c. $\frac{11}{16} - \frac{5}{16}$

2a. $\frac{7}{8} + \frac{3}{4}$ b. $\frac{1}{3} + \frac{5}{6}$ c. $\frac{9}{10} - \frac{1}{2}$

3a. $(\frac{3}{14} + \frac{3}{14}) + \frac{6}{7}$ b. $\frac{7}{12} - \frac{1}{4}$

Practice 7-2

Add or subtract. Write each answer in simplest form.

1a. $2\frac{2}{3} + 3\frac{1}{5}$ b. $6\frac{5}{8} + 3\frac{1}{2}$ c. $12\frac{1}{6} + 8\frac{4}{5}$

2a. $3\frac{3}{4} - 1\frac{1}{2}$ b. $9\frac{1}{3} - 6\frac{1}{2}$ c. $11 - 8\frac{3}{7}$

Solve and check.

5a. $c + \frac{2}{3} = \frac{11}{12}$ b. $t + 2\frac{1}{3} = 5\frac{1}{3}$

6a. $q - \frac{3}{5} = \frac{1}{15}$ b. $m - 3\frac{2}{5} = 7$

CHAPTER 8

Practice 8-1

Multiply. Use the GCF whenever possible.

1a. $\frac{3}{4} \times \frac{5}{6} \times \frac{7}{10}$ b. $\frac{9}{10}$ of 80

2a. $3\frac{4}{5} \times 1\frac{7}{8} \times 2\frac{1}{2}$ b. $5 \times \frac{7}{8} \times 3\frac{1}{4}$

Divide.

6a. $10\frac{2}{3} \div 1\frac{1}{9}$ b. $4\frac{1}{7} \div 2$ c. $\$10 \div 3\frac{1}{3}$

7a. $7 \div \frac{1}{4}$ b. $21 \div \frac{7}{8}$ c. $\frac{3}{4} \div 6$

Practice 8-2

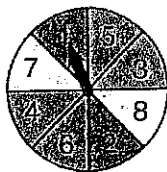
Compute. Use the order of operations rules.

1a. $6 \times \frac{3}{4} + \frac{1}{2}$ b. $\frac{2}{3} + \frac{1}{3} \times (9 + 6)$

2a. $9 \div \frac{2}{3} - \frac{7}{12}$ b. $\frac{3}{4} - \frac{5}{8} \div (2 + 8)$

Use a coin and the spinner for problems 3-4.

3. Make a tree diagram to list all possible outcomes.



4. Find the probability.

- a. $P(\text{heads}, 6)$
- b. $P(\text{tails}, <5)$

Answers

1a) _____ b) _____ c) _____
 2a) _____ b) _____ c) _____
 3a) _____ b) _____

1a) _____ b) _____ c) _____
 2a) _____ b) _____ c) _____

5a) _____ b) _____
 6a) _____ b) _____

1a) _____ b) _____
 2a) _____ b) _____

6a) _____ b) _____ c) _____
 7a) _____ b) _____ c) _____

1a) _____ b) _____
 2a) _____ b) _____

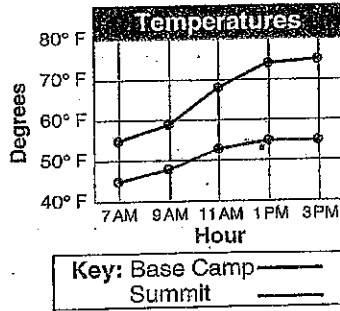
3. _____
 4a) _____
 b) _____

CHAPTER 9

Practice 9-1

Use the double line graph for problems 1-3.

- Find the temperature at the summit at 7 A.M.
- Estimate the difference in temperatures at 9 A.M.
- Between what hours did the temperatures change least?



Use the given data for problems 4-6.

- Organize the data in a frequency table.
- Use the data to make:
 - a line plot
 - a stem-and-leaf plot

19	48	67	11	45
29	11	44	11	36
28	12	10	39	11
35	12	18	40	11

Answers.

1) _____

2) _____

3) _____

5) _____

Line Plot

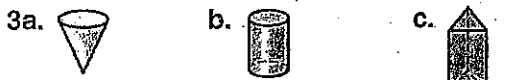
stem+leaf Plot

Practice 10-2

Identify each quadrilateral.



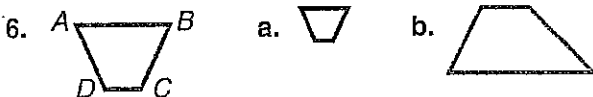
Identify each solid figure.



Tell whether the figures are congruent. Write Yes or No.



Which polygon is similar to ABCD?



Answers.

1a) _____

b) _____

c) _____

2a) _____

b) _____

3a) _____

b) _____

5a) _____

b) _____

6) _____

Answers.

CHAPTER II

Practice 11-1

Write each ratio in simplest form.

1a. 5 to 15 b. 4 to 24 c. 8 to 56

2a. 30 : 60 b. 27 : 42 c. 75 : 125

Find the missing term in each proportion.

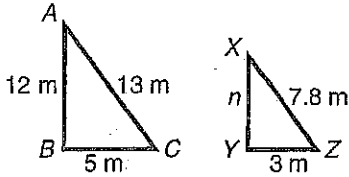
3a. $\frac{5}{7} = \frac{25}{n}$ b. $\frac{3}{12} = \frac{n}{4}$ c. $\frac{1}{30} = \frac{1}{n}$

4a. $n : 3 = 0.5 : 5$ b. $2.6 : 1.7 = n : 10.2$

Write a proportion.

Then solve.

5. $\triangle ABC$ is similar to $\triangle XYZ$. Find the value of n .



Using the word EXCELLENT, write each ratio:

6a. E's to all letters b. consonants to vowels

7a. Ls to Es b. vowels to consonants

Practice 11-2

Write as a percent.

1a. 43 to 100 b. 7 to 100 c. 0.75

2a. 0.5 b. $\frac{1}{4}$ c. $\frac{7}{25}$

Write as a decimal and as a fraction or mixed number in simplest form.

3a. 30% b. 5% c. .81%

4a. 37.5% b. 625% c. 187%

5a. 150% b. 1000% c. 0.3%

Find the actual measurements.

6a. Scale width: $1\frac{1}{4}$ in. b. Scale length: 4.5 cm
Scale: $\frac{1}{2}$ in. = 10 mi Scale: 1 cm = 120 km

1a) _____

2a) _____

b) _____

b) _____

c) _____

c) _____

3a) _____

b) _____

c) _____

4a) _____

b) _____

5) _____

6a) _____

b) _____

7a) _____

b) _____

Answers.

1a) _____

b) _____

c) _____

2a) _____

b) _____

c) _____

3a) _____

b) _____

c) _____

4a) _____

b) _____

c) _____

5a) _____

b) _____

c) _____

6a) _____

b) _____