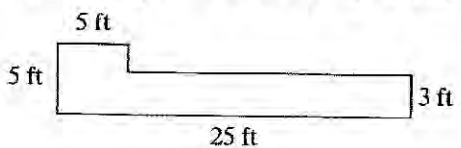
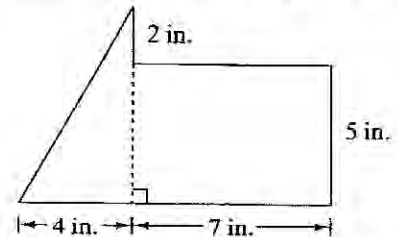


Cumulative Review

Chapters 1–8

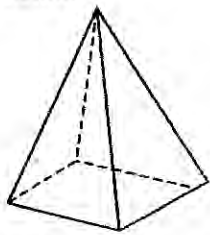
Multiple Choice. Choose the letter of the best answer.

- What is $\frac{4}{12} + \frac{6}{12}$ in simplest form?
 - $\frac{1}{6}$
 - $\frac{10}{24}$
 - $\frac{11}{12}$
 - $\frac{5}{6}$
- Which is the closest estimate of $3\frac{1}{3} - 1\frac{3}{8}$?
 - 1
 - $2\frac{3}{4}$
 - $1\frac{1}{2}$
 - 4
- Adina has a 14-foot piece of rope and she wants to cut it into $3\frac{1}{2}$ -foot lengths. How many $3\frac{1}{2}$ -foot pieces can she make from the original rope?
 - 3 pieces
 - 4 pieces
 - 5 pieces
 - 49 pieces
- How many gallons are in 12 quarts?
 - 24
 - 3
 - 8
 - 2
- Use mental math to find the value of y .
 $\frac{7}{18} = \frac{y}{36}$
 - 7
 - 14
 - 21
 - 28
- What is 37 out of every 100 throws expressed as a percent?
 - 100%
 - 37%
 - 74%
 - 3.7%
- What is the least common multiple of 100 and 20?
 - 5
 - 10
 - 100
 - 2000
- What is the perimeter of an equilateral triangle whose sides are 16 centimeters?
 - 19 cm
 - 48 cm
 - 32 cm
 - 64 cm
- What is the perimeter of a square with an area of 16 square centimeters?
 - 4 cm
 - 12 cm
 - 8 cm
 - 16 cm
- What is the perimeter of the figure below?
 
 - 38 ft
 - 60 ft
 - 40 ft
 - 75 ft
- What is the area of the figure below?
 
 - 18 in.^2
 - 43 in.^2
 - 49 in.^2
 - 63 in.^2
- The length of a bridge on a map is 3 inches. The actual length of the bridge is 12 miles. What is the scale of the map?
 - 1 in. : 4 mi
 - 1 in. : 8 mi
 - 1 in. : 12 mi
 - 1 in. : 24 mi

Cumulative Review (continued)

Chapters 1–8

13. Which number is less than $|-4|$?
 A. $|-5|$ B. $|-6|$
 C. 4 D. -6
14. Name the three-dimensional figure shown below.



- F. Square pyramid G. Rectangular prism
 H. Quadrilateral J. Triangular pyramid
15. What is the name given to a polygon with 6 sides?
 A. sixagon B. decagon
 C. hexagon D. octagon
16. Which of the following is NOT a type of quadrilateral?
 F. equilateral triangle G. trapezoid
 H. rhombus J. parallelogram
17. Write $\frac{2}{5}$ as a percent and as a decimal.
 A. 20%, 0.2 B. 25%, 0.25
 C. 40%, 0.4 D. 52%, 0.52
18. What is 35% of 46?
 F. 161 G. 156.4
 H. 16.1 J. 16
19. Find the surface area of a rectangular prism with a length of 5 centimeters, a width of 4 centimeters, and a height of 3 centimeters.
 A. 3 cm B. 47 cm^2
 C. 94 cm^2 D. 104 cm^2
20. What is the volume of a rectangular prism with length = 10 cm, width = 2 cm, and height = 4.5 cm?
 F. 16.5 cm^3 G. 20 cm^3
 H. 90 cm^3 J. 102.5 cm^3

21. What is the area of a parallelogram with height 3.7 m and base 4.2 m?
 A. 12.14 m^2 C. 15.54 m^2
 B. 16 m^2 D. 16.25 m^2

Use the spreadsheet below for Exercises 22–24.

	A	B	C	D	E
1	Day	Time Start	Time Stop	Hours Worked	Amount Earned
2	Sun.	3	6		
3	Wed.	6	8		
4	Fri.	6	10		
5	Sat.	7	11		
6			Totals		

22. Kelly baby-sits weekly and earns \$3.75 an hour. The spreadsheet shows a typical weekly schedule for her. What is the formula for cell D4?
 F. $= B4 - C4$
 G. $= C4 - B4$
 H. $= B4 + C4$
 J. $= D2 + D3$
23. How much did Kelly earn on Saturday night?
 A. \$3.75 B. \$7.50
 C. \$11.25 D. \$15.00
24. What is the formula for cell E6?
 F. $= E2 + E3 + E4 + E5$
 G. $= A6 + B6 + C6 + D6$
 H. $= (C6 - B6) \times 3.75$
 J. $= 4 \times D6$

Short Response

25. You measure the distance you biked in kilometers but need to submit the distance biked to your gym teacher in meters. If you biked 10.6 km, how many meters will you submit to your gym teacher?

Cumulative Review

Chapters 1–9

Multiple Choice. Choose the letter of the best answer.

Use the chart for Exercises 1–2.

Preferred Preparation of Eggs

Manner of Preparation	Number of People
Scrambled	34
Poached	3
Fried	31
Omelets	5
Boiled	23
Other	4

- What is the least preferred way to prepare eggs?
 - A. fried
 - B. poached
 - C. boiled
 - D. scrambled
- If you organized this data into a bar graph, with a horizontal axis called "Manner of Preparation," which bar would be the largest?
 - F. poached
 - G. scrambled
 - H. fried
 - J. omelets
- Frozen orange juice concentrate costs \$.02 per ounce. How much does a 64-ounce container cost?
 - A. \$0.13
 - B. \$1.28
 - C. \$12.80
 - D. \$64.02

Use the data set below for Exercises 4–5.

37, 45, 50, 35, 41, 43, 54, 41, 38, 46

- Find the mean.
 - F. 10
 - G. 41
 - H. 42
 - J. 43

- Find the median.
 - A. 10
 - B. 41
 - C. 42
 - D. 43
- Which number is greater than 1.104?
 - F. 1.014
 - G. 1.044
 - H. 1.144
 - J. 0.444

Use the spreadsheet below for Exercises 7–8.

	A	B	C	D	E
1	Day	Time In	Time Out	Total Hours	Amount Earned
2	Sat.	1	6		
3	Mon.	2	8		
4	Tues.	2	8		
5	Wed.	1	8		
6	Thurs.	1	8		
7			Weekly Total		

- Riki works a summer job for \$5.75 an hour. The spreadsheet shows a typical workweek. How much does she earn in a typical week?
 - A. \$178.25
 - B. \$172.50
 - C. \$166.75
 - D. \$159.75
- Which formula could *not* be used to calculate the value of cell E7?
 - F. $E7 = E2 + E3 + E4 + E5 + E6$
 - G. $E7 = 5.75 \times D7$
 - H. $E7 = (D2 + D3 + D4 + D5 + D6) \times 5.75$
 - J. $E7 = (E2 + E3 + E4 + E5 + E6) \times 5.75$

Cumulative Review (continued)

Chapters 1–9

9. Which expression can be used to find the product 6×498 ?
- A. $(6 \times 500) + (6 \times 2)$
 - B. $(6 \times 500) - 2$
 - C. $(6 \times 500) - (6 \times 2)$
 - D. $500 - 2 \times 6$
10. School lunch costs \$3.35. If Megan buys lunch 25 times, how much money will she spend?
- F. \$3.60
 - G. \$21.65
 - H. \$83.75
 - J. \$335.00
11. Estimate $34,926 - 17,042$.
- A. 17,000
 - B. 18,000
 - C. 19,000
 - D. 20,000
12. Round 5,389.029 to the nearest hundredth.
- F. 5,389
 - G. 5,389.02
 - H. 5,389.03
 - J. 5,400
13. Which of the following situations would be best shown by a line graph?
- A. Five students each get a different score on a math quiz.
 - B. Gas prices rise steadily over nine months.
 - C. A science teacher divides class time up into five smaller periods to allow time for five different activities.
 - D. Julie compares the price of fresh-squeezed orange juice at four different restaurants.
14. Which answer choice shows the decimals ordered from least to greatest?
- F. 8.001, 8.09, 8.101, 8.19
 - G. 8.001, 8.101, 8.19, 8.09
 - H. 8.9, 8.19, 8.101, 8.09
 - J. 8.9, 8.09, 8.19, 8.101

Short Response

15. Write the number 456.002 in word form.

16. Judy owns a retail store, which was open for five days last week. The total sales for each day last week were \$345.50, \$367.25, \$339.00, \$374.00, and \$196.50.

- a. Which piece of data is the outlier in this data set?

- b. How will the outlier affect the mean of last week's total sales?
