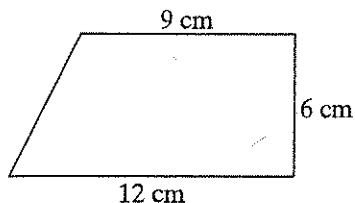


Cumulative Review

Chapters 1–9

Multiple Choice. Circle the letter of the best answer.

1. What is the area of the trapezoid below?



- A. 36 cm^2 B. 63 cm^2
 C. 64 cm^2 D. 126 cm^2
2. The probability that Lena will throw a strike is $\frac{3}{4}$. What is the probability that Lena's next two pitches will be strikes?
- F. $\frac{3}{8}$ G. $\frac{3}{4}$
 H. $\frac{1}{2}$ J. $\frac{9}{16}$

3. A map of a city has a scale of 2 in.: $\frac{1}{2}$ mi. The distance on the map from the library to your house is 6.5 in. What is the actual distance from the library to your house?
- A. 6.5 mi
 B. 3.25 mi
 C. 1.625 mi
 D. 0.8125 mi

4. What is the approximate unit price of a lemon if a bag of 15 lemons costs \$2?
- F. \$0.075 G. \$0.13
 H. \$0.15 J. \$0.30

5. Margaret wants to paint a rectangular toy box that is 2 ft wide by 1.5 ft high by 4 ft long. One quart of paint will cover 100 ft^2 . How many quarts of paint will she need to buy if she puts two coats on both the inside and outside of the toy box?
- A. 1 qt B. 2 qt
 C. 3 qt D. 4 qt

6. Which is between 5 and 6?

F. $5\frac{1}{2} + 2\frac{1}{4}$ G. $4\frac{3}{5} + 2\frac{3}{4}$
 H. $11\frac{2}{3} - 6\frac{7}{8}$ J. $9\frac{1}{3} - 3\frac{4}{5}$

7. Solve $x - \frac{3}{4} = 9\frac{1}{2}$.

A. $10\frac{1}{4}$ B. 10
 C. $9\frac{3}{4}$ D. $8\frac{3}{4}$

8. The length of a room is 12 ft 4 in. The width is 15 ft 6 in. What is the area of the floor of the room in square feet?

F. $17\frac{5}{6} \text{ ft}^2$ G. 180 ft^2
 H. $180\frac{1}{6} \text{ ft}^2$ J. $191\frac{1}{6} \text{ ft}^2$

9. Solve $\frac{5}{6}t = 9$.

A. $7\frac{1}{2}$ B. 9
 C. 10 D. $10\frac{4}{5}$

10. A bicycle is on sale at $\frac{1}{3}$ off the original price of \$276. What is the sale price of the bike?

F. \$83 G. \$92
 H. \$184 J. \$201

11. In this figure, what is the ratio of the shaded area to the unshaded area?



A. $\frac{1}{4}$ B. $\frac{1}{3}$
 C. $\frac{3}{4}$ D. $\frac{4}{5}$

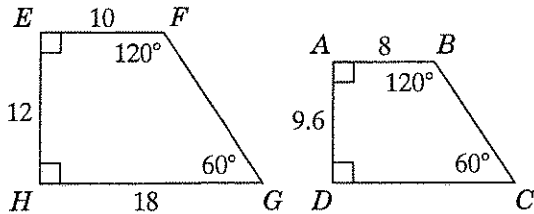
12. Jan earned \$125 last week. If she worked 5 hours each day, Monday through Friday, how much did she make per hour?

F. \$25 G. \$5
 H. \$4.25 J. \$3.57

Cumulative Review (continued)

Chapters 1–9

13. The trapezoids are similar. What is the length of \overline{CD} ?



- A. 12 B. 22
C. 14.4 D. 12.4

14. Which proportion will help you find 36% of 290?

F. $\frac{36}{290} = \frac{n}{100}$ G. $\frac{290}{36} = \frac{n}{100}$
H. $\frac{n}{290} = \frac{36}{100}$ J. $\frac{100}{290} = \frac{n}{36}$

15. Ragan made \$5.25 per hour before he received a raise of \$.50 per hour. What percent increase is this, rounded to the nearest tenth of a percent?

- A. 10.5% B. 10%
C. 9.5% D. 9%

16. Two angles in a triangle measure 38° and 56° . What type of angle is the third angle?

- F. right G. straight
H. obtuse J. acute

17. A bag contains red, blue, white, and yellow chips. You draw a chip, replace it, and draw another. How many possible outcomes are there?

- A. 4 B. 10
C. 12 D. 16

18. You draw out a second chip from the bag of chips in Exercise 17 above without replacing the first chip. What can you say about the two events?

- F. They are dependent.
G. They are equally likely.
H. They are independent.
J. They are unlikely.

19. You know that there are 3 red chips, 4 blue chips, 6 white chips, and 5 yellow chips in a bag. What is the probability that the first two chips you draw are both red if you do not replace the first chip?

- A. $\frac{2}{9}$ B. $\frac{5}{25}$
C. $\frac{1}{54}$ D. $\frac{1}{51}$

Short Response

20. Casey got 32 out of 40 questions correct on her social studies test. Last week she got 24 out of 30 questions correct. Which percentage was better? Explain.

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