

TEST NAME: **Second 3rd Quarter CFA**
TEST ID: **100883**
GRADE: **06**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____

Class: _____

Date: _____

1. Which expression represents the product of 25 and a number, n ?
 - A. $25 + n$
 - B. $25n$
 - C. $25 - n$

2. An equilateral triangle has side lengths of $2x + 4$. What is the perimeter of the triangle?
 - A. $4x + 8$
 - B. $6x + 4$
 - C. $6x + 12$
 - D. $18x$

3. A teacher has a total of 48 cans for an art project. She will share them equally among 12 students in the class. Which equation will determine the number of cans, n , each student will receive?
 - A. $48 = \frac{12}{n}$
 - B. $48 = 12n$
 - C. $48 = 12 + n$
 - D. $48 = 12 - n$

4. What is the value of $4x + 5 + 2x + y$, if $x = 6$ and $y = 4$?
- A. 29
 - B. 45
 - C. 47
 - D. 81
5. To ride a roller coaster, a person must be at least 60 inches tall. Which inequality represents the height, h , a person must be to ride the roller coaster?
- A. $h > 60$
 - B. $h < 60$
 - C. $h \geq 60$
 - D. $h \leq 60$
6. What word describes the 2 in the expression $2x + m$?
- A. coefficient
 - B. sum
 - C. variable
 - D. term

7. The table below shows the cost of renting movies, y , based on the number of movies rented, x .

Number of Movies Rented (x)	Cost (y)
2	\$5.50
3	\$8.25
4	\$11.00

Which equation calculates the cost to rent x number of movies?

- A. $y = 2.75x$
- B. $y = 5.50x$
- C. $y = x + 2.75$
- D. $y = x + 5.50$
8. Jeff is three times older than his sister. Jeff is 18 years old. How old is Jeff's sister?
- A. 6 years old
- B. 15 years old
- C. 54 years old
9. A flower shop is having a sale on baskets of flowers. The table shows the prices of the baskets.

Number of Baskets (n)	Total Cost (t)
2	\$14.50
3	\$21.75
4	\$29.00

Which equation would calculate the cost of n baskets?

- A. $t = 14.50n$
- B. $t = 7.25n$
- C. $t = n + 7.25$
- D. $t = n + 14.50$

10. The table below shows Kristin's wages, y , based on the hours she works, x .

Hours (x)	Wages (y)
4	\$50
6	\$75
8	\$100

Which equation will calculate Kristin's wages when she works x hours?

- A. $y = 12.5x$
 - B. $y = 25x$
 - C. $y = 37.5x$
 - D. $y = 50x$
11. What is the area of a parallelogram with a length of 12.8 ft and a height of 7.4 ft?
- A. 20.20 ft²
 - B. 40.40 ft²
 - C. 54.76 ft²
 - D. 94.72 ft²
12. What polygon is formed by the coordinates $(-2, 9)$, $(4, 9)$, $(4, 3)$, $(-5, 3)$?
- A. rectangle
 - B. parallelogram
 - C. rhombus
 - D. trapezoid

13. A cube has side lengths of $3\frac{1}{2}$ mm. What is the volume of the cube?

A. $42\frac{7}{8}$ mm³

B. $12\frac{1}{2}$ mm³

C. $10\frac{1}{2}$ mm³

14. What is the volume of a right rectangular prism that measures $4\frac{1}{2}$ inches long, 3 inches wide, and 6 inches high?

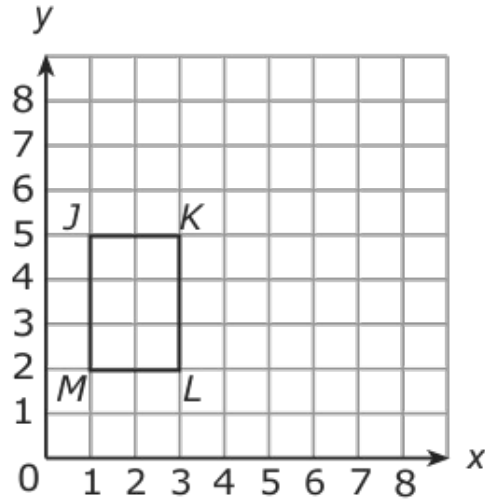
A. $7\frac{1}{2}$ inches³

B. $13\frac{1}{2}$ inches³

C. 72 inches³

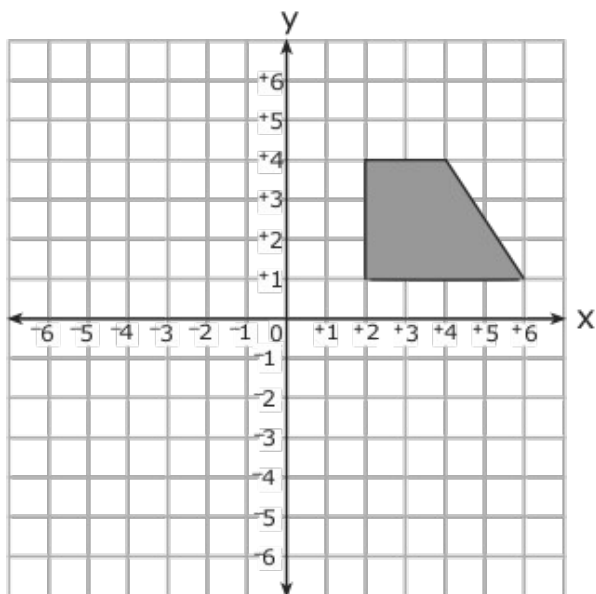
D. 81 inches³

15. What is the perimeter of rectangle $JKLM$ shown below?



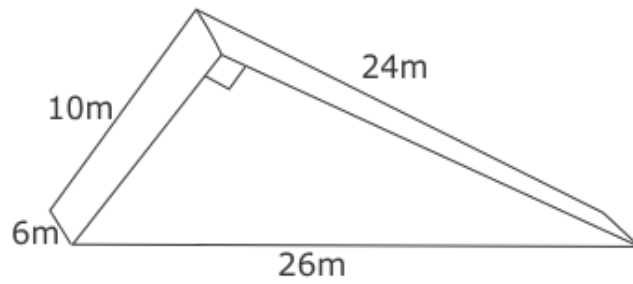
- A. 6 units
 - B. 10 units
 - C. 14 units
16. Which is the volume of a right rectangular prism with the dimensions 4 ft by 24 ft by $5\frac{3}{4}$ ft?
- A. $33\frac{3}{4}$ ft^3
 - B. 96 ft^3
 - C. $480\frac{3}{4}$ ft^3
 - D. 552 ft^3

17. What is the area of the figure below?



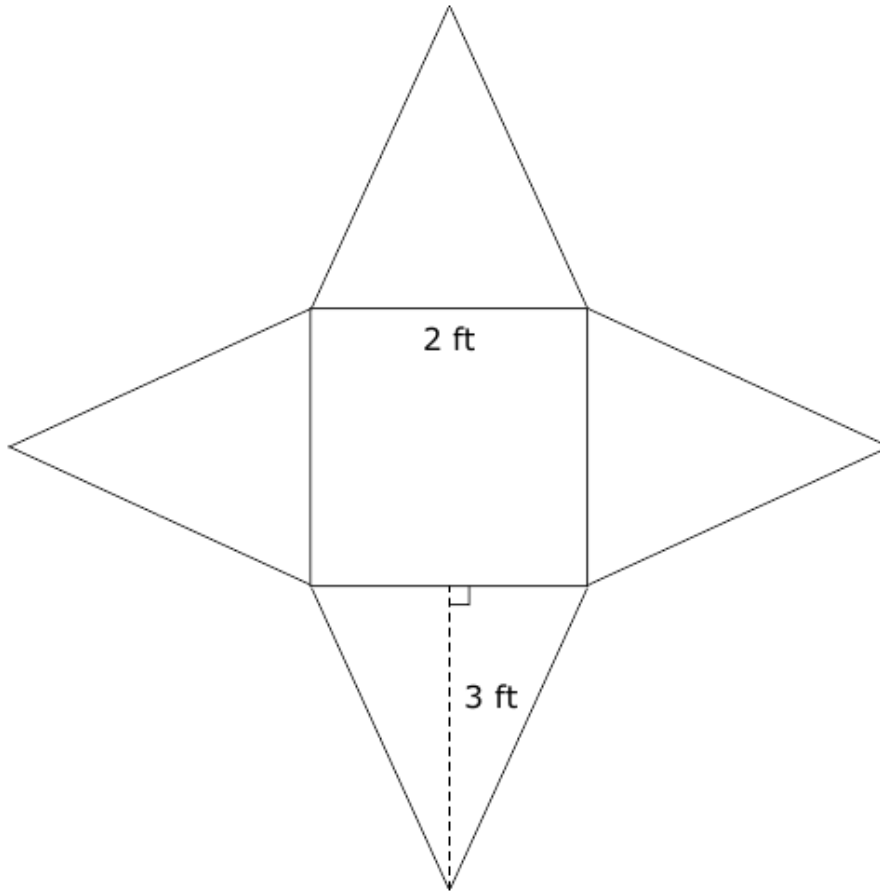
- A. 8 units²
- B. 9 units²
- C. 10 units²
- D. 12 units²

18. What is the surface area of the triangular prism?



- A. 1,440 m²
- B. 840 m²
- C. 600 m²
- D. 480 m²

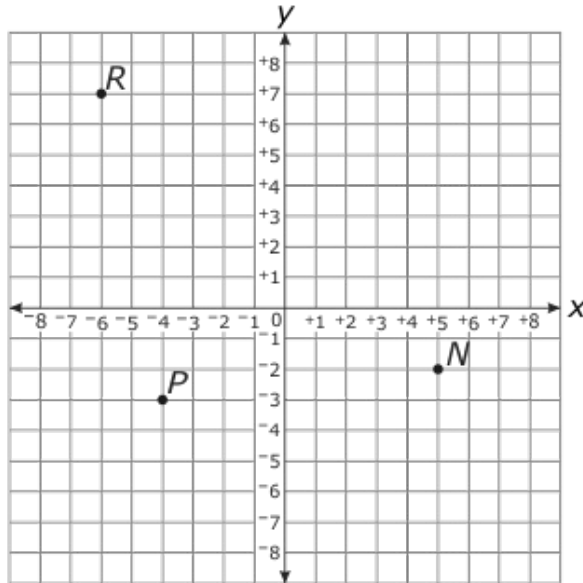
19. The net of a square pyramid is shown below.



What is the surface area of the square pyramid?

- A. 6 ft^2
 - B. 16 ft^2
 - C. 24 ft^2
 - D. 28 ft^2
20. A parallelogram has a height of 8 cm and an area of 96 cm^2 . What is the measure of the base of the parallelogram?
- A. 6 cm
 - B. 12 cm
 - C. 18 cm
 - D. 24 cm

21. In the coordinate plane below, what are the coordinates of R ?



- A. $(-6, 7)$
- B. $(7, -6)$
- C. $(-6, -7)$
- D. $(7, 6)$

22. Which ordered pair is located in Quadrant II?

- A. $(5, 7)$
- B. $(5, -7)$
- C. $(-5, 7)$
- D. $(-5, -7)$

23. Square $PQRS$ has vertices at $P(-2, 4)$, $Q(-2, -1)$, $R(3, -1)$, and $S(3, 4)$. What is the length of side PS ?

- A. 5 units
- B. 6 units
- C. 7 units
- D. 8 units

24. What is the distance between the points $(5, 9)$ and $(-3, 9)$?

- A 2 units
- B 7 units
- C 8 units
- D 9 units