

TEST NAME: **Unit 4 EOG Test**
TEST ID: **1499291**
GRADE: **06 - Sixth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

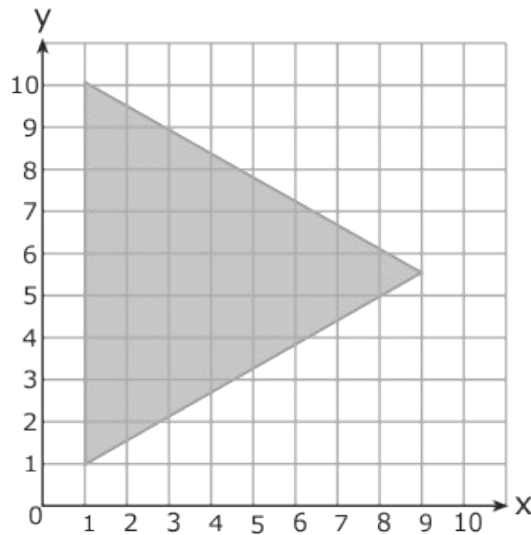
Student: _____

Class: _____

Date: _____

1. 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

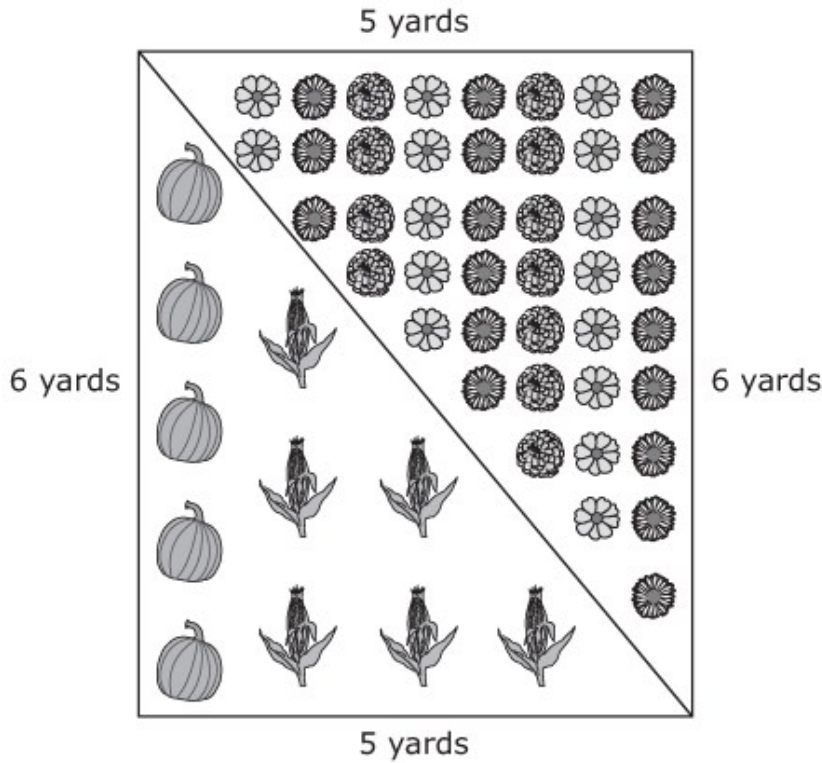
2. What is the area of the shaded figure?



- A. 22 units²
- B. 36 units²
- C. 40 units²
- D. 45 units²

3. Chris is planting a vegetable garden and a flower garden. Each garden is in the shape of a right triangle.

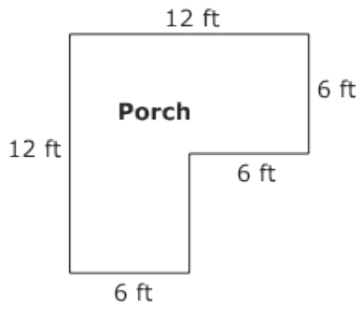
The picture shows the dimensions of the two gardens.



What is the total area that Chris will use for his two gardens?

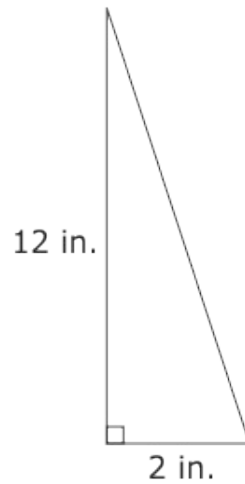
- A. 22 square yards
 - B. 30 square yards
 - C. 60 square yards
 - D. 120 square yards
4. An equilateral triangle has a perimeter of 42 inches. The height measures 12 inches. What is the area of the triangle?
- A. 84 inches²
 - B. 168 inches²
 - C. 252 inches²
 - D. 504 inches²

5. The Wilsons want to put outdoor carpet on their porch.



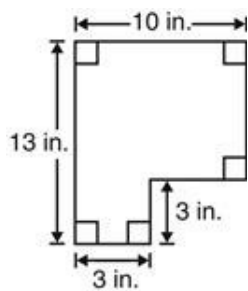
How much carpet will be needed for their porch?

- A. 42 ft^2
 - B. 72 ft^2
 - C. 108 ft^2
 - D. 144 ft^2
6. What is the area of the triangle below?



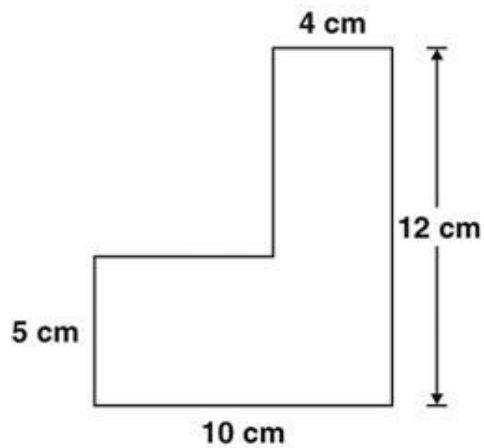
- A. 12 in.^2
- B. 14 in.^2
- C. 24 in.^2

7. What is the area of the figure below?



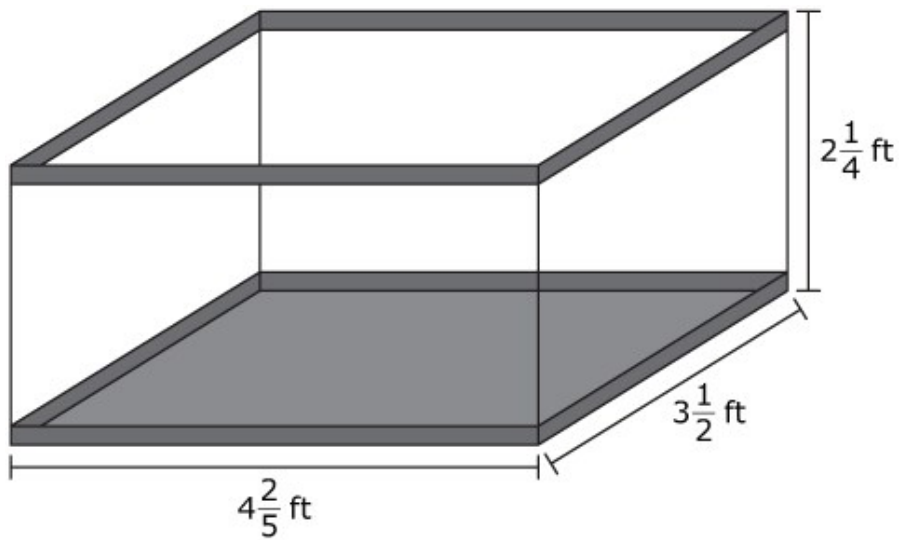
- A. 109 in.^2
- B. 100 in.^2
- C. 90 in.^2
- D. 46 in.^2

8. What is the area of this figure?



- A. 31 cm^2
- B. 78 cm^2
- C. 98 cm^2
- D. 120 cm^2

9. Elyssa bought a rectangular aquarium. The measurements, in feet (ft), are shown below.

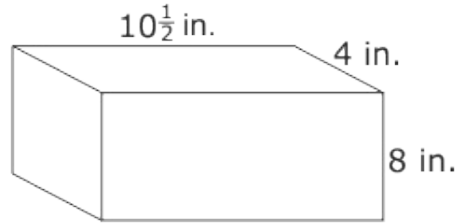


How much water will it take to fill the aquarium?

- A. $10\frac{3}{20}$ cubic feet
- B. $15\frac{8}{20}$ cubic feet
- C. $24\frac{1}{20}$ cubic feet
- D. $34\frac{13}{20}$ cubic feet

10.

What is the volume of the right rectangular prism below?



A $22\frac{1}{2}$ in.³

B. $67\frac{1}{2}$ in.³

C. 336 in.³

D. 672 in.³

11. 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

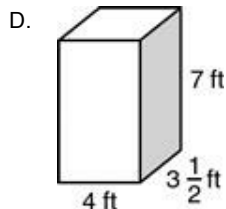
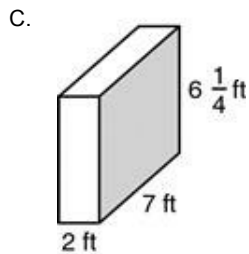
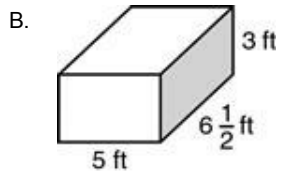
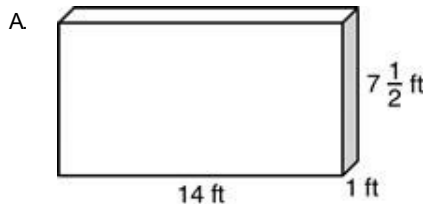
12. Samantha bought a refrigerator that is $3\frac{1}{2}$ feet wide, $5\frac{1}{2}$ feet tall, and $2\frac{1}{2}$ feet deep. How much space will the new refrigerator occupy?
- A. $30\frac{1}{8} \text{ ft}^3$
- B. $48\frac{1}{8} \text{ ft}^3$
- C. $83\frac{1}{2} \text{ ft}^3$
- D. $192\frac{1}{2} \text{ ft}^3$
13. LaTisha used a box in the shape of a rectangular prism to mail a package. The area of the base of the box was $40\frac{1}{4}$ square inches, and the height was $6\frac{3}{4}$ inches. What was the volume of this box in cubic inches?
- A. $543\frac{3}{8}$
- B. $480\frac{3}{8}$
- C. $271\frac{11}{16}$
- D. $240\frac{3}{16}$
14. Rekeita has a bag that contains 4060.8 cubic inches of birdseed. She wants to sort the birdseed into small boxes that are in the shape of rectangular prisms. Each box has a height of $12\frac{1}{2}$ inches and a square base with side length of $6\frac{1}{4}$ inches. What is the least number of these boxes needed to hold all the birdseed in the bag?
- A. 2
- B. 5
- C. 8
- D. 9

15. What is the volume of the right rectangular prism below?



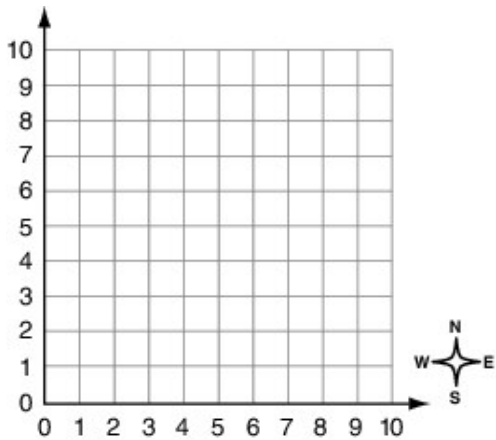
- A. 82 mm^3
- B. 40 mm^3
- C. 12.5 mm^3

16. A manager at a shipping company will purchase boxes in the shape of right rectangular prisms. He wants the volume of each box to be exactly 98 cubic feet. Which figure shows a box with the dimensions, in feet (ft), that the manager will purchase?



17. A triangle has vertices at $(2, -2)$, $(2, 3)$, and $(6, -2)$. What is the area of the triangle?
- A. 9 units²
 - B. 10 units²
 - C. 18 units²
 - D. 20 units²

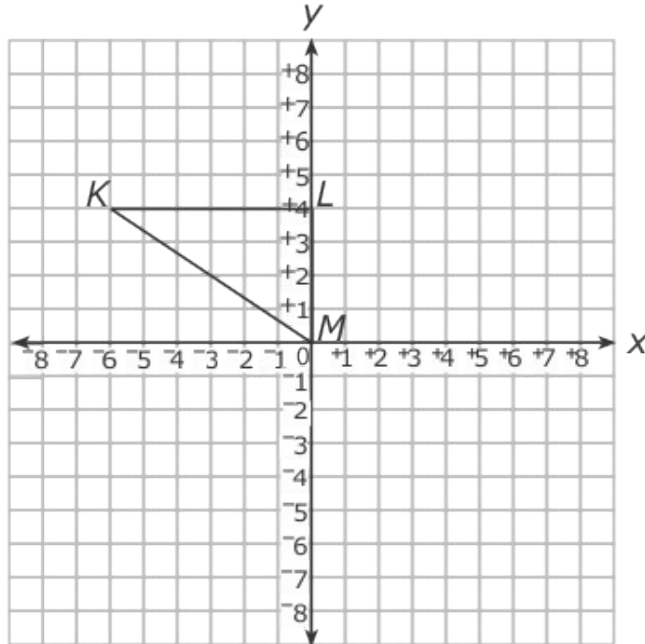
18. Jared is making a map of his town on a grid. He needs to plot his house at $(2, 3)$, his school at $(2, 8)$, and the public library at $(5, 8)$.



Every weekday, Jared walks from his house to his school. After school, he walks to the library, where his mom picks him up. If each square equals 1 block, how many blocks does Jared walk each weekday?

- A. 5 blocks
- B. 7 blocks
- C. 8 blocks
- D. 10 blocks

19. Point N , located at $(-6,0)$, is added to the triangle below to form rectangle $KLMN$.



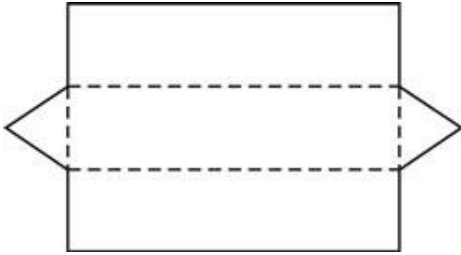
What is the area of rectangle $KLMN$?

- A. 12 units²
 - B. 16 units²
 - C. 20 units²
 - D. 24 units²
20. Which polygon is formed when the ordered pairs below are graphed and then connected in order?

$(1, -2), (3, -2), (3, 4), (1, 4)$

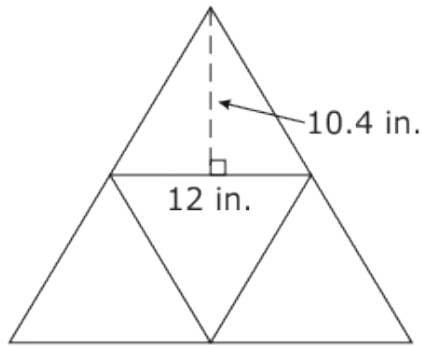
- A. rectangle
- B. rhombus
- C. trapezoid
- D. square

21. Bethany made the following two-dimensional pattern to help her calculate the surface area of a three-dimensional figure.



Which three-dimensional figure is Bethany modeling?

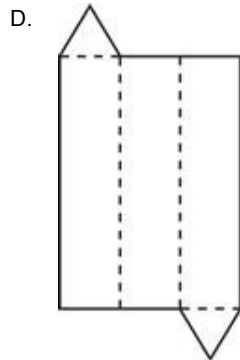
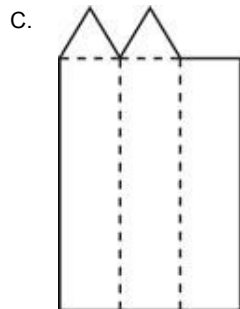
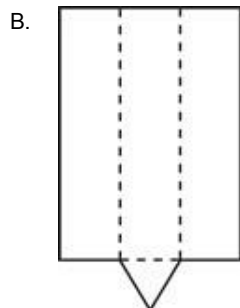
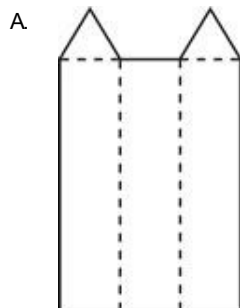
- A. cone
 - B. cylinder
 - C. square pyramid
 - D. triangular prism
22. The net of a triangular pyramid is shown below. All the triangles are equilateral triangles.



The approximate height of each triangle is 10.4 in. What is the **approximate** surface area of the triangular pyramid?

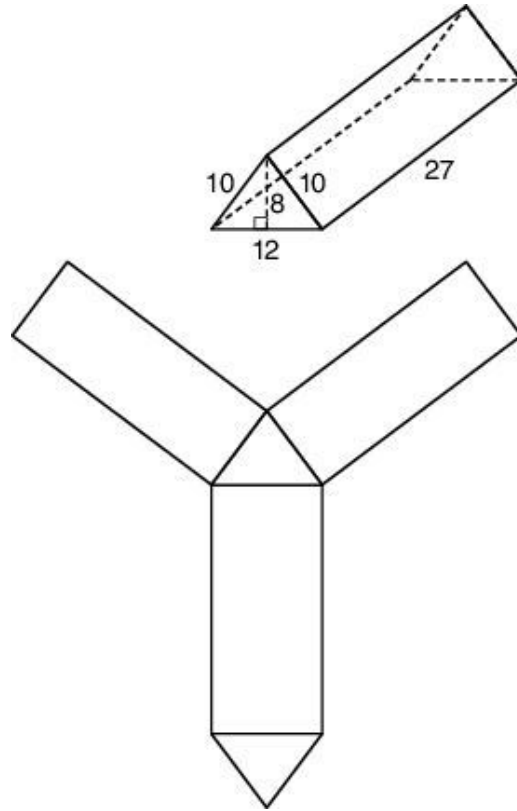
- A. 500 in.²
- B. 375 in.²
- C. 250 in.²

23. Which of these figures could be folded along the dashed lines to make a triangular prism?



24.

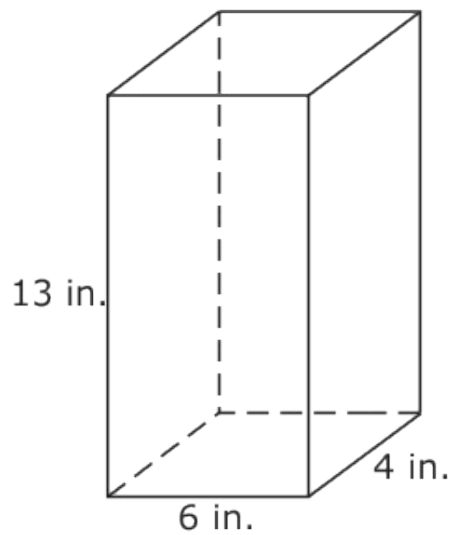
The object below is a triangular prism and its net.



What is the surface area of this triangular prism in square units?

- A. 906
- B. 912
- C. 960
- D. 1,056

25. What is the surface area of the right rectangular prism below?



- A. 130 in.^2
- B. 154 in.^2
- C. 308 in.^2
- D. 312 in.^2