

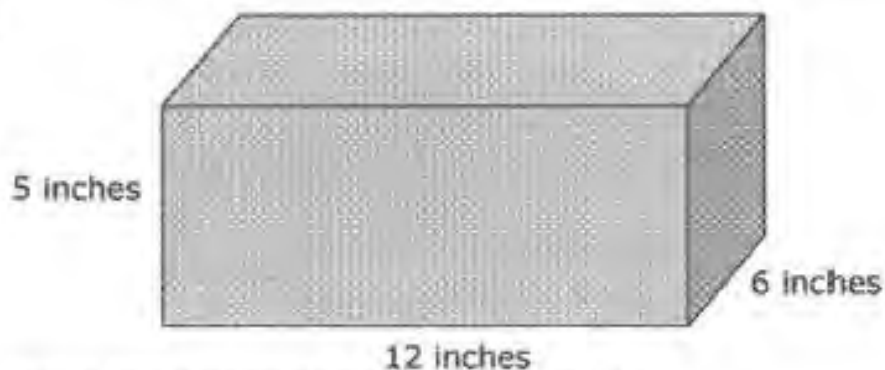
## Area and Perimeter (COPY 2) [118267]

Student \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

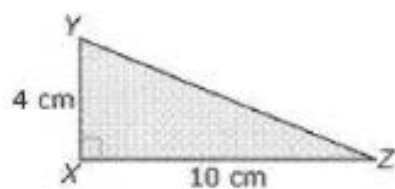
1.



What is the surface area in square inches of the box?

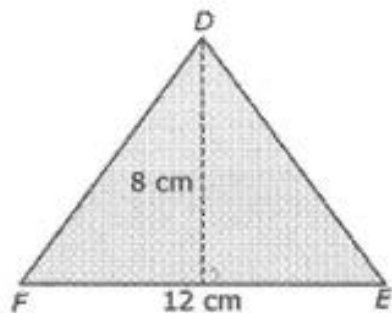
- A. 162
  - B. 294
  - C. 324
  - D. 360
2. Ed's garden has the shape of a square with an area of 100 square feet. If he wants to build a fence around the entire garden, what is the minimum number of feet of fencing he will need?
- A. 400
  - B. 40
  - C. 25
  - D. 10

3. Triangle XYZ is shown below.

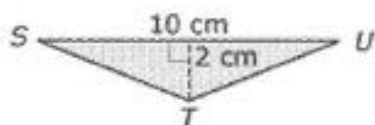


Which triangle has the same area as  $\triangle XYZ$ ?

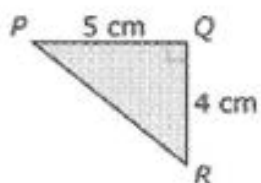
A.



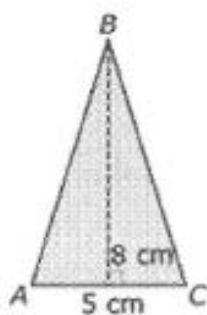
B.



C.



D.



4. The park near Trudy's house is rectangular in shape. The perimeter of the park is 24 kilometers. Which of the following is closest to the greatest area in square kilometers the park could have?

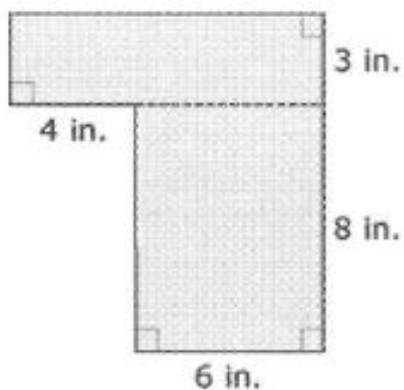
A. 11

B. 24

C. 36

D. 45

5. Look at the figure.



What is the total area of the figure?

A. 60 sq in.

B. 78 sq in.

C. 110 sq in.

D. 168 sq in.

6. Julie built a fence that is 2 feet tall around the perimeter of her garden. The garden is shaped like a regular hexagon as shown.

**Julie's Garden Fence**

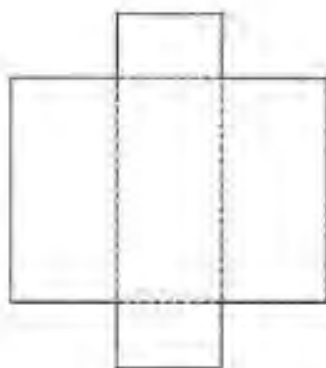


If Julie paints only the outside of her fence, what is the total area in square feet that Julie will paint?

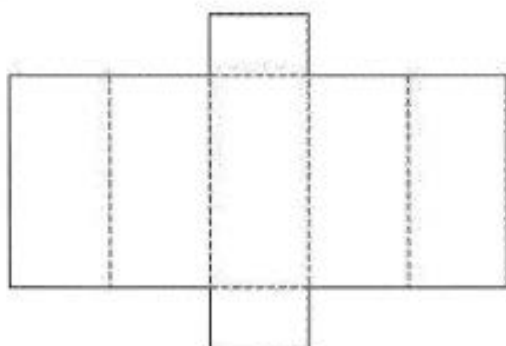
- A. 16
- B. 32
- C. 48
- D. 96

7. Which net, when folded along the dashed line segments, will form a rectangular prism ?

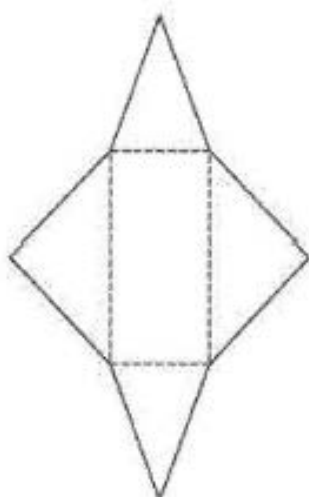
A.



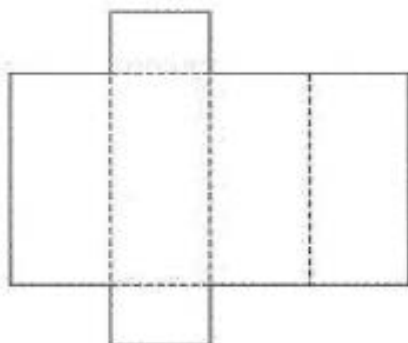
B.



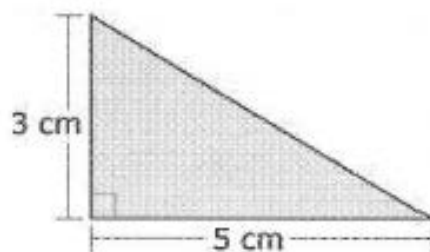
C.



D.



8. What is the area in square centimeters of the triangle shown?



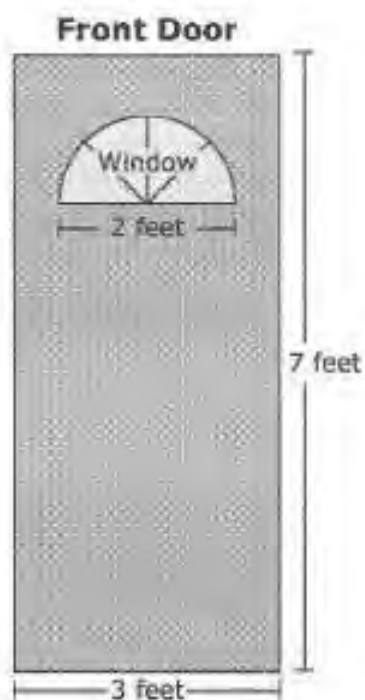
A. 7.5

B. 9.5

C. 15

D. 30

9. Valerie's front door is shaped like a rectangle with a semicircular window at the top as shown.



Valerie wants to paint the outside of her front door except for the window. Which of the following is closest to the area in square feet of the part of the door that Valerie wants to paint?

- A. 14.7
- B. 15.9
- C. 19.4
- D. 22.6

10. A furniture store gives customers paper models of furniture. The customers can use the models to try different room layouts. Which type of measurement represents the amount of floor the paper models can cover?

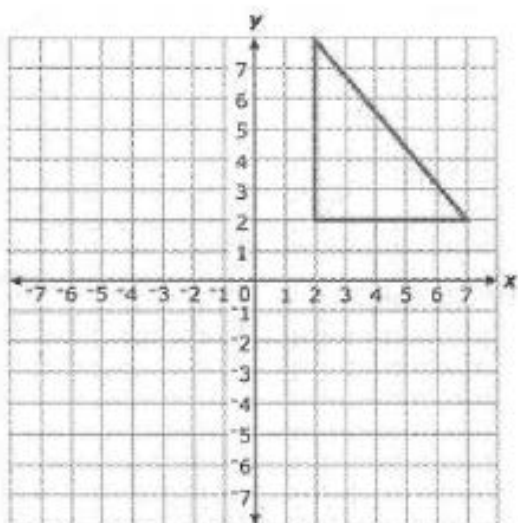
- A. Area
- B. Width
- C. Volume
- D. Perimeter

11. Doug has 24 feet of fence to use for enclosing a dog pen. He wants the dog pen to be rectangular but not square. Which of these dimensions describes a rectangle with the greatest area?

- A.  $2\text{ ft} \times 10\text{ ft}$
- B.  $3\text{ ft} \times 9\text{ ft}$
- C.  $4\text{ ft} \times 8\text{ ft}$
- D.  $5\text{ ft} \times 7\text{ ft}$



12. Paul drew a triangle on a graph as shown below.



Which is closest to the area in square units of the triangle?

- A. 12
- B. 15
- C. 28
- D. 30