

TEST NAME: **Practice Test Area/Perimeter**
TEST ID: **2168061**
GRADE: **03 - Third Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **Shared Classroom Assessments**

02/09/18, Practice Test Area/Perimeter

Student: _____

Class: _____

Date: _____

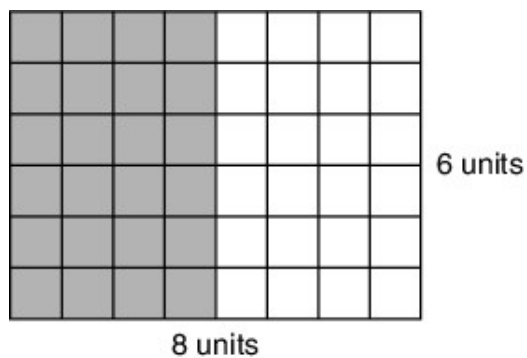
1. Mr. Smith is going to cover the rectangle below with square tiles that measure 1 centimeter on each side.



Exactly how many tiles will Mr. Smith need?

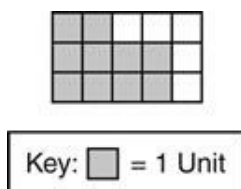
- A. 9 tiles
- B. 14 tiles
- C. 28 tiles
- D. 45 tiles

2. Andy drew the rectangle shown.



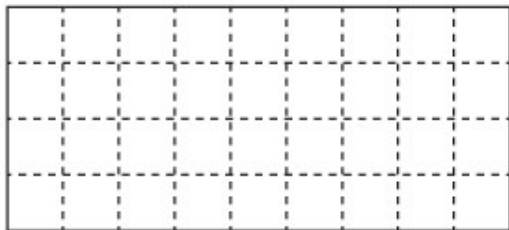
Which expression can be used to find the area of the rectangle?

- A. $8 \times (6 + 6)$
 - B. $(4 \times 4) + (6 \times 6)$
 - C. $(6 + 4) \times (6 + 4)$
 - D. $(6 \times 4) + (6 \times 4)$
3. What is the area of the shaded region in this figure?



- A. 10 units
- B. 10 cubic units
- C. 10 square units
- D. 10 cubic square units

4. This rectangle is made with squares that are 1 square centimeter.

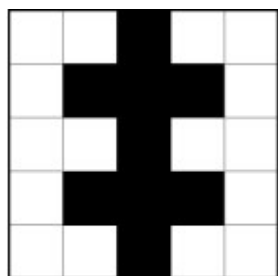



Which whole number is the area, in square centimeters, of the rectangle?

- A. 32
 - B. 34
 - C. 36
 - D. 38
5. Gwen completely painted the top surface of a box. She painted an area that was 64 square inches. Which model could be the top view of the box Gwen painted?

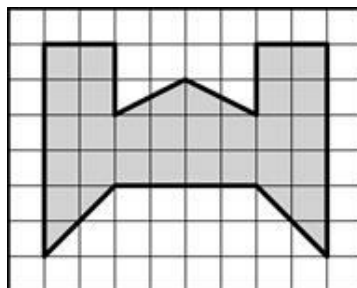
- A. A square with side lengths of 10 inches and 10 inches.
- B. A rectangle with side lengths of 4 inches and 6 inches.
- C. A square with side lengths of 8 inches and 8 inches.
- D. A rectangle with side lengths of 3 inches and 20 inches.


6. What is the area, in square units, of the figure shaded in black?



 = 1 square unit

- A. 9 square units
B. 15 square units
C. 20 square units
D. 25 square units
7. Cynthia drew the outline of a toy and shaded the figure on the grid below.



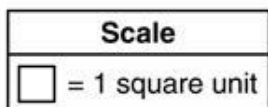
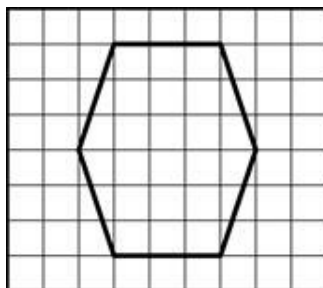
Scale
 = 1 square centimeter

Which is closest to the area of the shaded figure?

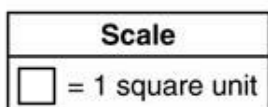
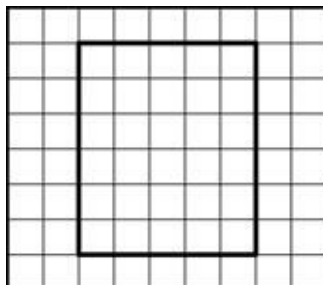
- A. 34 square centimeters
B. 32 square centimeters
C. 30 square centimeters
D. 26 square centimeters

8. Which figure has an area closest to 24 square units?

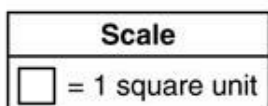
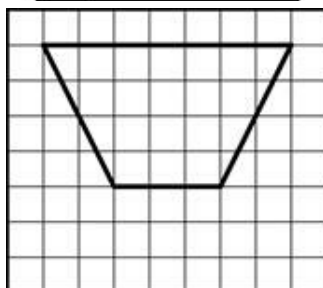
A.



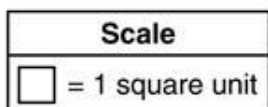
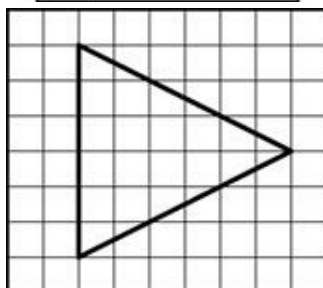
B.



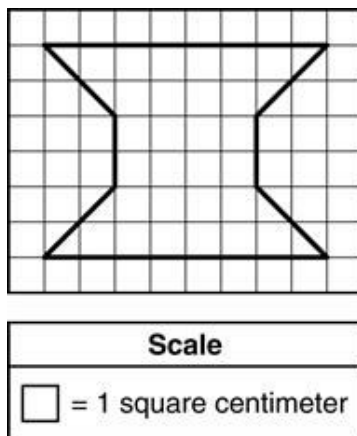
C.



D.



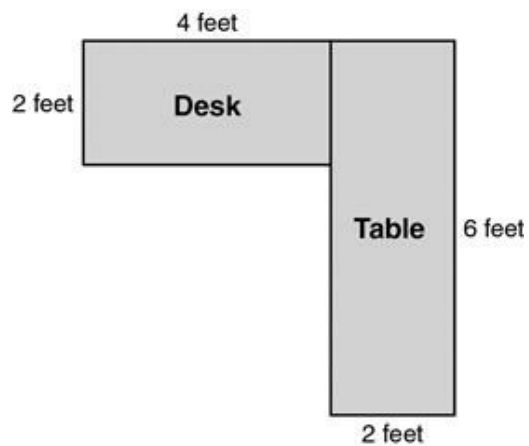
9. Aaron traced a piece of paper from a note pad on the grid below.



Which is closest to the area of this outline?

- A. 32 square centimeters
 - B. 36 square centimeters
 - C. 48 square centimeters
 - D. 80 square centimeters
10. The area of the rectangular dog pen Tim built is 72 feet. Which could be the length and width of the dog pen?
- A. 7 feet \times 8 feet
 - B. 7 feet \times 10 feet
 - C. 8 feet \times 7 feet
 - D. 8 feet \times 9 feet

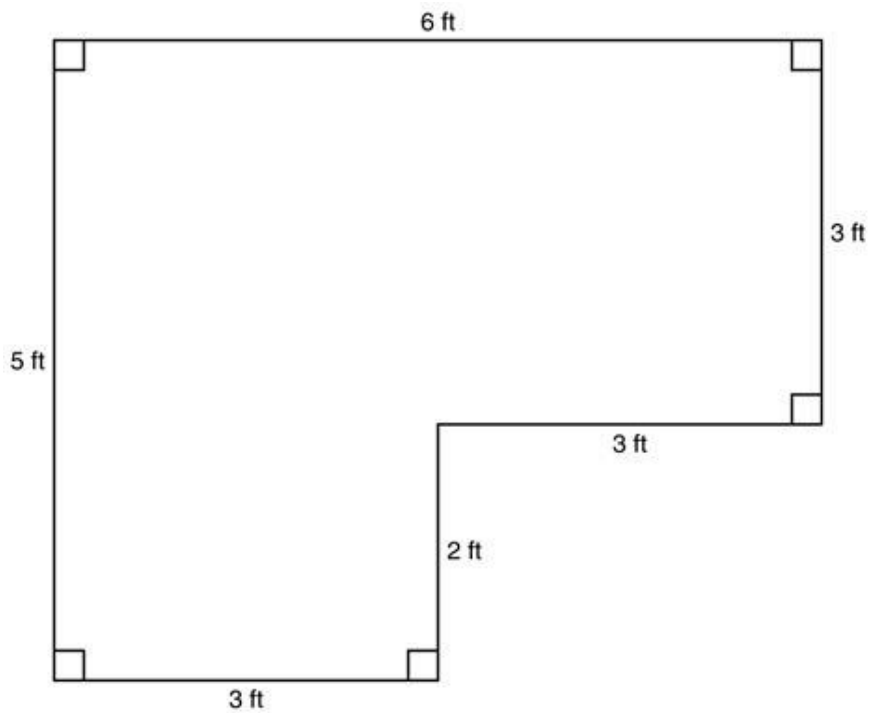
11. Jenna pushed a table next to her desk to give her more work space, as shown in the figure below.



What is the total area Jenna has for work space?

- A. 8 square feet
- B. 12 square feet
- C. 14 square feet
- D. 20 square feet

12. The dimensions of the floor of a closet are shown in the diagram below.

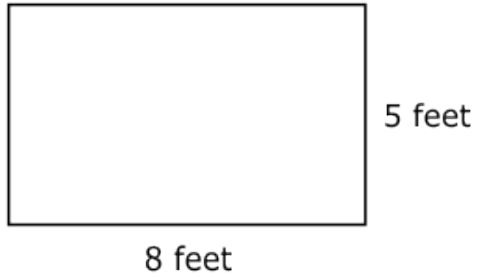


What is the area of the closet?

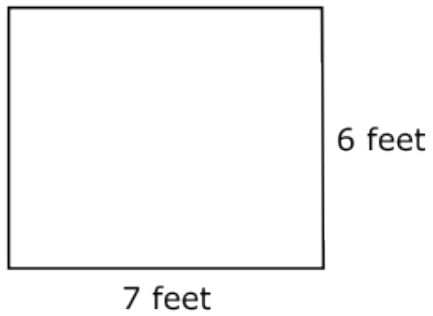
- A. 15 square feet
- B. 22 square feet
- C. 24 square feet
- D. 30 square feet

13. Jacob made the floor of his rabbit's cage 45 square feet. Which picture could be the cage floor?

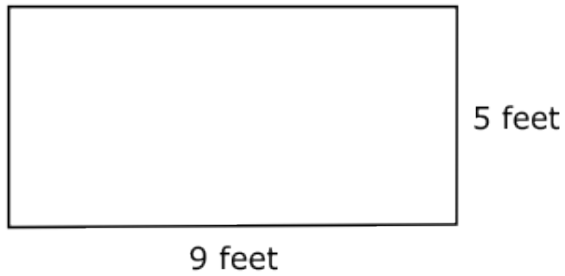
A.



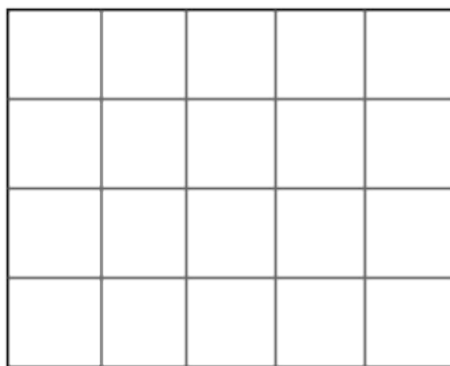
B.



C.

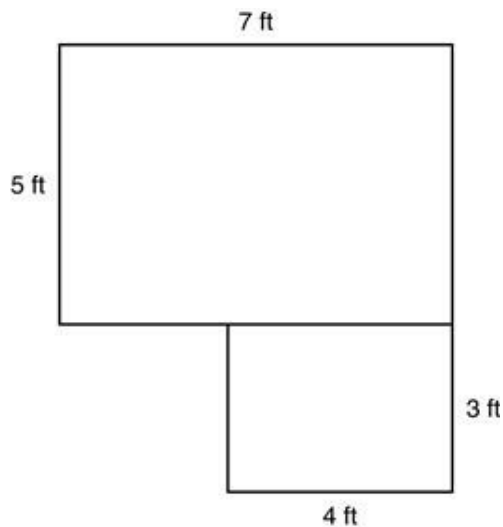


14. What is the area of the figure below?



- A. 9 square units
- B. 18 square units
- C. 20 square units

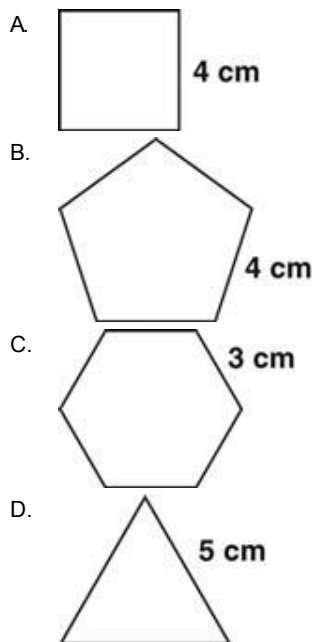
15. Rebeca's garden has two rectangular sections. The measurements, in feet, are shown in the model below.



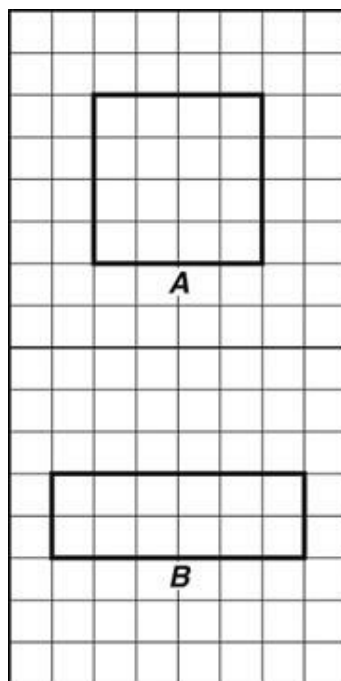
What is the total area of Rebeca's garden?

- A. 12 square feet
- B. 21 square feet
- C. 35 square feet
- D. 47 square feet

16. Each shape below has sides that are all the same length. Which figure below has the greatest perimeter?

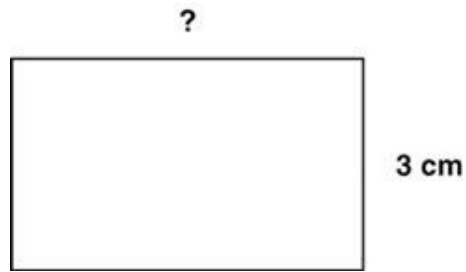


17. Which statement about the perimeter of these two figures is true?

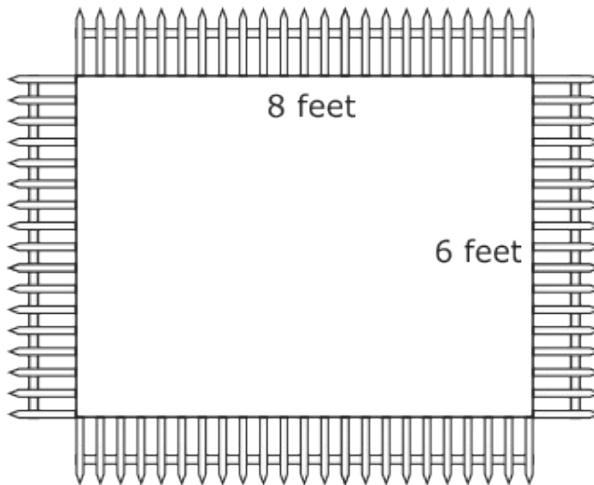


- A. The perimeter of *B* is greater than the perimeter of *A*.
- B. The perimeter of *A* is equal to the perimeter of *B*.
- C. The perimeter of *A* is 2 units greater than the perimeter of *B*.
- D. The perimeter of *A* is 4 units greater than the perimeter of *B*.

18. The rectangle has a perimeter of 16 cm. What is the length?



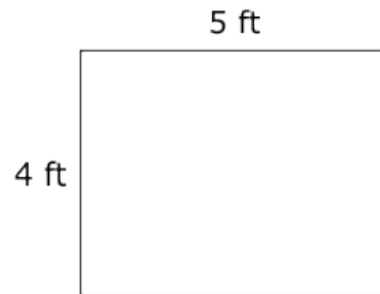
- A. 5 centimeters
 - B. 10 centimeters
 - C. 13 centimeters
 - D. 20 centimeters
19. Ellen planted a garden and wants to protect it. She puts a fence around the garden, shown below.



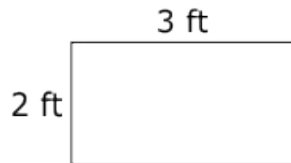
How many feet of fencing did she buy?

- A. 14 ft
- B. 22 ft
- C. 28 ft

20. Which rectangle has the same perimeter but a different area than the rectangle below?



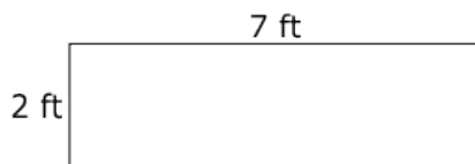
A.



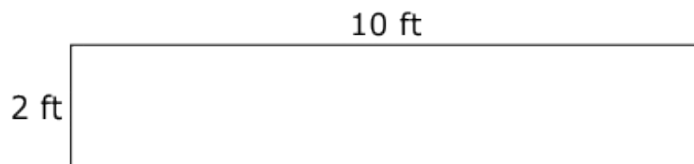
B.



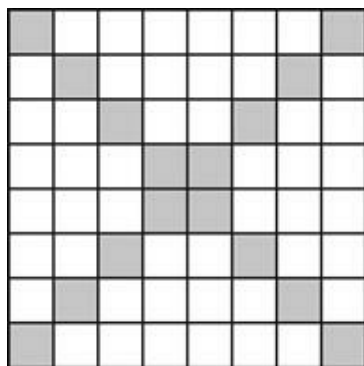
C.



D.

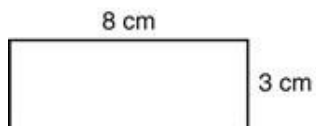
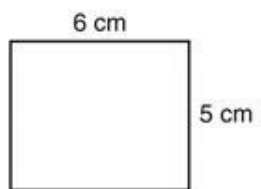


21. There are 64 squares on this game board. Each small square on the board is 1 inch long.



What is the perimeter of the game board?

- A. 8 inches
 - B. 16 inches
 - C. 32 inches
 - D. 64 inches
22. Which of the following statements is true about the rectangles shown?



- A. They have different areas but the same perimeter.
- B. They have the same perimeter and the same area.
- C. They have the same area but different perimeters.
- D. They have different perimeters and different areas.