

TEST NAME: **Area and Perimeter Practice**
TEST ID: **2846528**
GRADE: **03 - Third Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

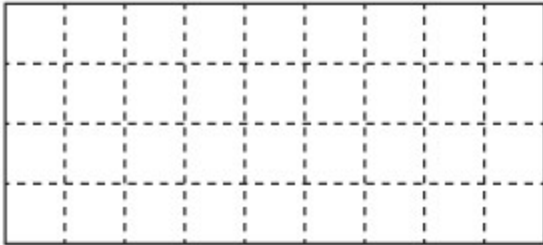
02/08/19, Area and Perimeter Practice

Student: _____

Class: _____

Date: _____

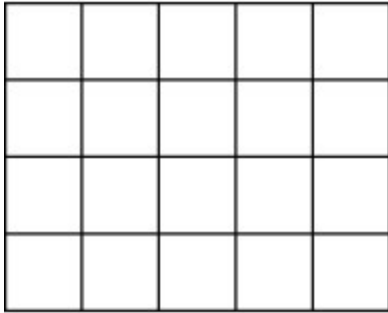
1. This rectangle is made with squares that are 1 square centimeter.




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

- A. 32
- B. 34
- C. 36
- D. 38

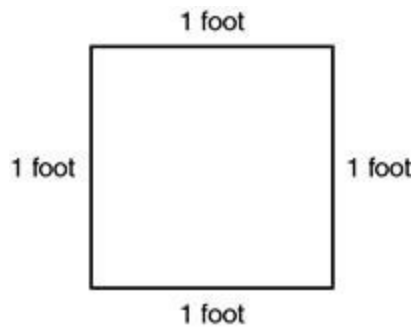
2. Layla is going to find the number of square units in the model below.



 = 1 unit square

Which measurement is Layla going to find?

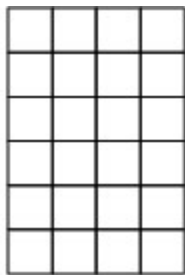
- A. the area
 - B. the width
 - C. the length
 - D. the perimeter
3. **Mrs. Andrews drew a figure to show the length and width of a square tile in her room.**




Which statement about the tile is true?

- A. The tile must have an area of 2 square feet because half of 4 is 2.
- B. The tile must have an area of 2 square feet because $1 \times 1 = 2$.
- C. The tile must have an area of 1 square foot because the length of each side is exactly 1 foot.
- D. The tile must have an area of 4 square feet because the length of each side is exactly 1 foot.

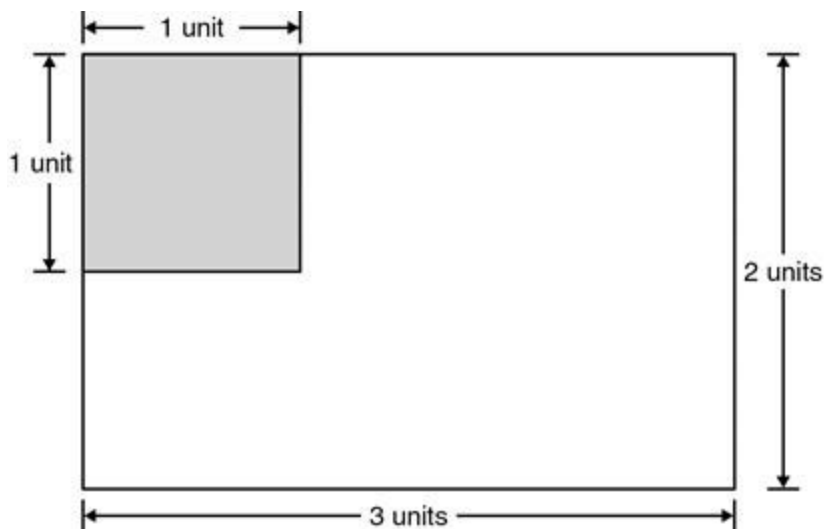
4. Look at the model below.



 = 1 Square Inch

What is the area of the model?

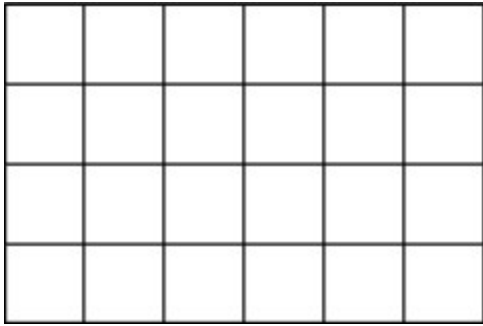
- A. 10 square inches
 - B. 16 square inches
 - C. 20 square inches
 - D. 24 square inches
5. **Roberto drew a rectangle. Part of the rectangle is shaded.**



What is the total area of the shaded part of the rectangle?

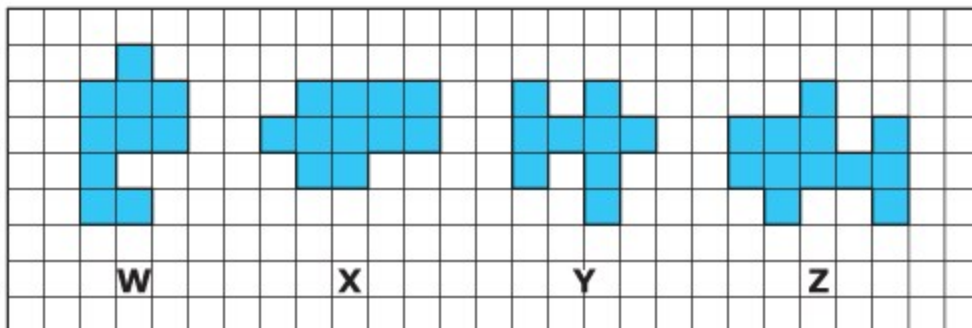
- A. 1 square unit
- B. 5 square units
- C. 6 square units
- D. 7 square units

6. What is the area of **each unit square** in the figure below?



- A. 1 square unit
- B. 10 square units
- C. 20 square units
- D. 24 square units

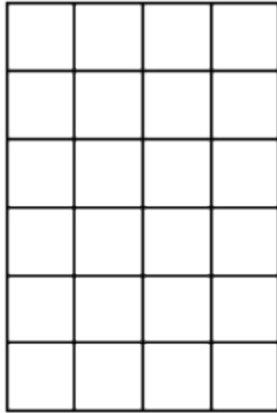
7. There are four shapes on a grid paper.



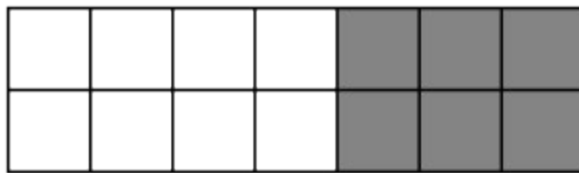
Which shape has 11 square units?

- A. Shape W
- B. Shape X
- C. Shape Y
- D. Shape Z

8. Denny is trying to find out the area of his baking pan, shown below. He cut his brownies in 1-square inch samples.

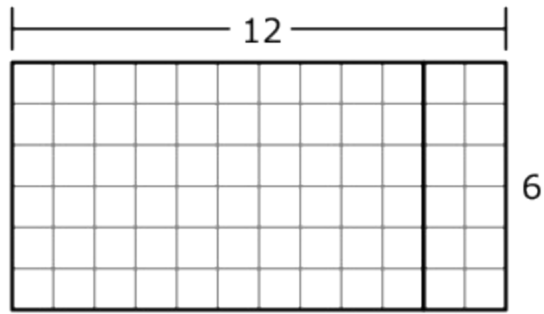


- A. 10 square inches
B. 20 square inches
C. 24 square inches
D. 48 square inches
9. The area of a wood floor and carpeted floor is shown below. The carpeted floor is shaded.



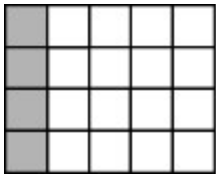
- A. 4×2
B. $4 + 2 + 3 + 2$
C. $4 \times 2 + 3 \times 2$
D. $4 \times 3 \times 2$

10. Which expression does the area model represent?



- A. $6 + (10 + 2)$
- B. $6 \times (10 + 2)$
- C. $6 \times (10 \times 2)$
- D. $6 \times (2 \times 10)$

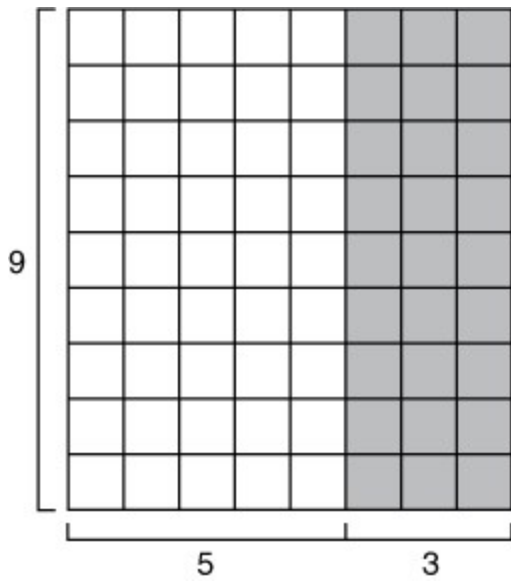
11. Phil wants to find the area of the rectangle below.



Which expression could Phil use to find the area?

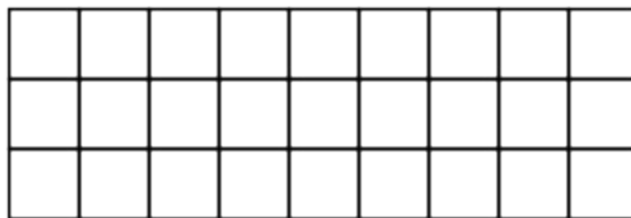
- A. $(4 \times 4) \times 1$
- B. $(4 \times 4) + 1$
- C. $4 + (1 + 4)$
- D. $4 \times (1 + 4)$

12. Ms. Saunders used the expression $(9 \times 5) + (9 \times 3)$ to find the area of this rectangle.



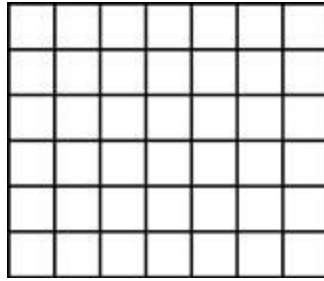
What is another expression Ms. Saunders could have used?

- A. $5 \times 3 \times 9$
 - B. $5 \times (9 + 3)$
 - C. $9 \times (5 + 3)$
 - D. $9 \times (5 + 9)$
13. Which expression represents the area of the figure below?



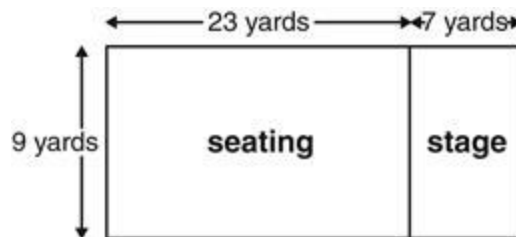
- A. $3 + 9$
- B. 9×3
- C. 9×9
- D. $27 + 27$

14. Allie and Zoe each used fabric squares to cover rectangular pieces of cardboard of the same size, as shown.



Allie counted the squares, and Zoe multiplied the number of squares in each row by the number of rows to find the area. Which statement BEST explains the totals the two girls should have gotten?

- A. The two girls should have gotten different totals, because $7 + 6 = 13$ but $6 \times 7 = 42$.
 - B. The two girls should have gotten the same totals, because $7 + 6 = 13$ and $6 + 7 = 13$.
 - C. The two girls should have gotten different totals, because $7 + 7 + 7 + 7 + 7 + 7 = 42$ but $6 \times 6 = 36$.
 - D. The two girls should have gotten the same totals, because $7 + 7 + 7 + 7 + 7 + 7 = 42$ and $6 \times 7 = 42$.
15. A diagram of the school auditorium floor is shown below.



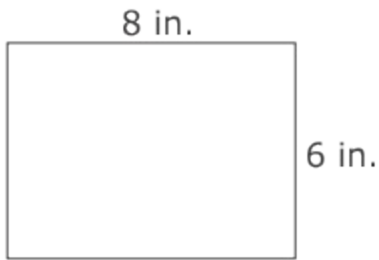
The total area of the auditorium floor is $(9 \times 23) + (9 \times 7)$ square yards. Which expression is equivalent to the total area of the auditorium floor?

- A. $9 \times (23 + 7)$
- B. $9 \times (23 \times 7)$
- C. $9 + (23 + 7)$
- D. $9 + (23 \times 7)$

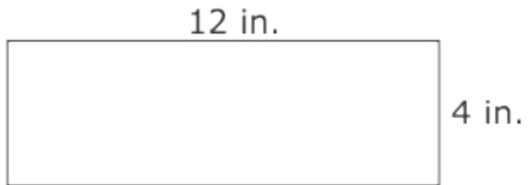
16. The Jones family wants to put up a fence around the perimeter of their garden. The garden is 6 feet wide and 8 feet long. How many feet of fence do they need?
- A. 14 feet
 - B. 28 feet
 - C. 40 feet
 - D. 48 feet
17. **Mr. Swanson used exactly 36 feet of fencing to build a fence around his rectangular garden. Which of the following are the possible dimensions of the garden?**
- A. 20 ft by 16 ft
 - B. 18 ft by 2 ft
 - C. 13 ft by 5 ft
 - D. 10 ft by 7 ft
18. Mrs. Ali is placing a border around the rectangular classroom bulletin board. The board is 9 feet long and 6 feet wide. How many feet of border does Mrs. Ali need?
- A. 15
 - B. 24
 - C. 30
 - D. 54

19. Which rectangle has the greatest perimeter?

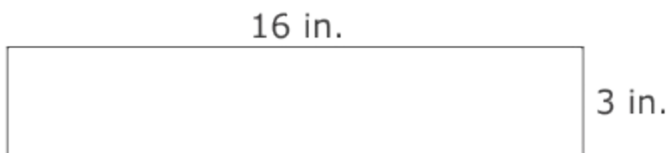
A.



B.



C.



D.



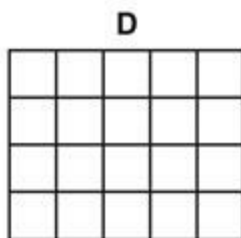
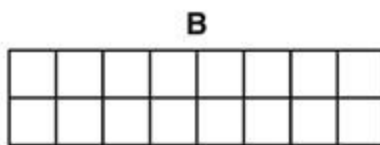
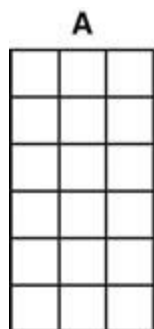
20. The perimeter of the rectangle is 30 centimeters. The rectangle is 6 centimeters wide.



What is the length of the rectangle?

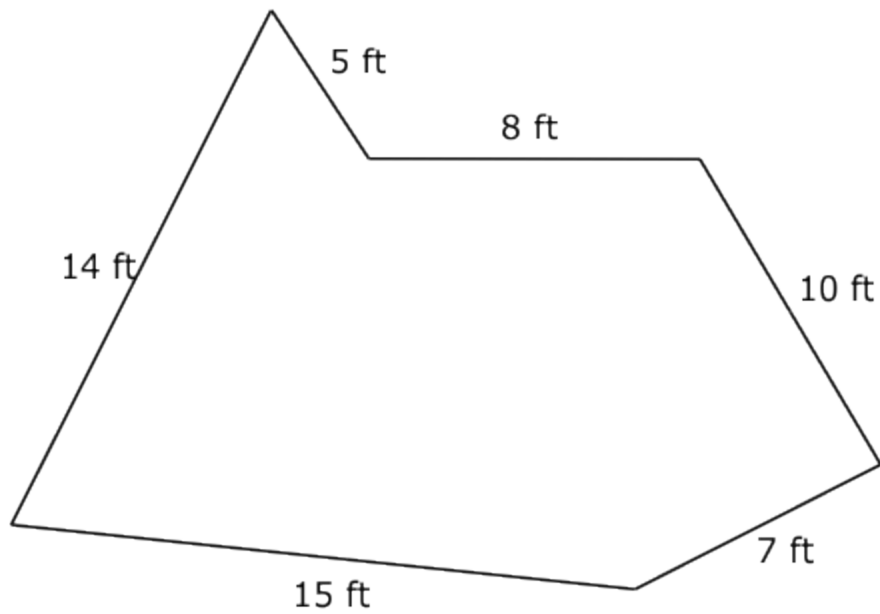
- A. 6 centimeters
- B. 9 centimeters
- C. 12 centimeters
- D. 36 centimeters

21. Which rectangles below have the same perimeter?



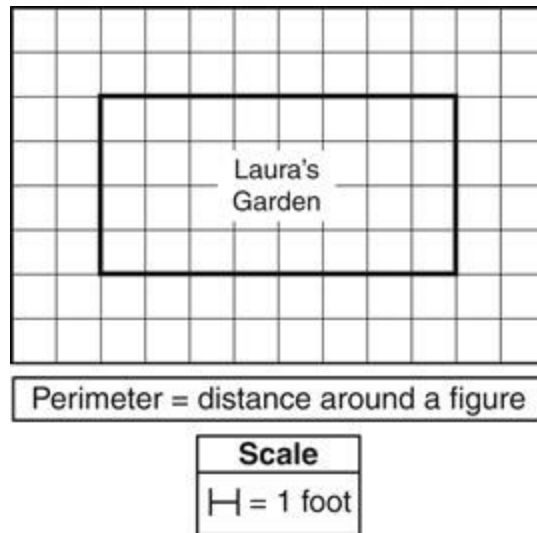
- A. C and A only
- B. D and B only
- C. D and C only
- D. A and D only

22. What is the perimeter of the figure below?



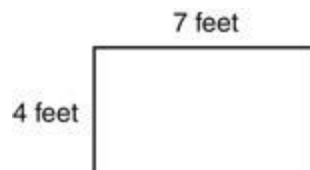
- A. 44 ft
- B. 49 ft
- C. 54 ft
- D. 59 ft

23. Laura wants to put edging along the outside edge of her flower garden. She drew a picture of her garden on the grid paper shown below.



What is the perimeter of Laura's garden?

- A. 16 feet
 - B. 20 feet
 - C. 24 feet
 - D. 32 feet
24. What is the perimeter of the rectangle below?



- A. 11 feet
 - B. 20 feet
 - C. 22 feet
 - D. 28 feet
25. The perimeter of a rectangle is 134 cm. The length is 45 cm. What is the width of the rectangle?
- A. 89 cm
 - B. 67 cm
 - C. 44 cm
 - D. 22 cm

