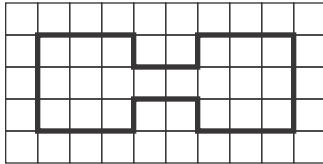


Name _____

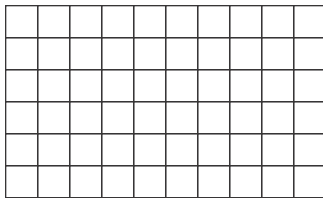
1. Tammy is making a square pattern. Each side is 3 inches. Is the perimeter of the pattern the same as the area of the pattern? Explain.



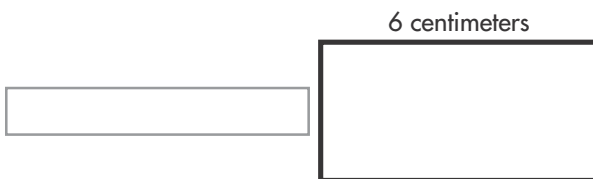
2. Patsy's tile design is shown below.



Draw another tile design that has the same area but a different perimeter from Patsy's design.



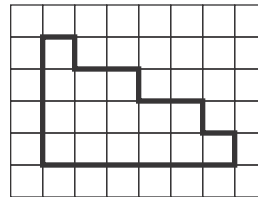
3. John drew a rectangle with a perimeter of 18 centimeters. He labeled one side 6 centimeters, but he forgot to label the other side. Write the missing side length in the box.



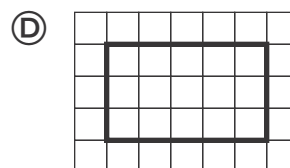
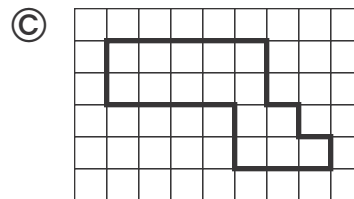
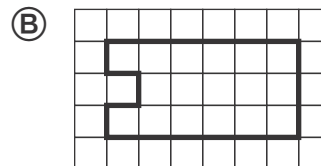
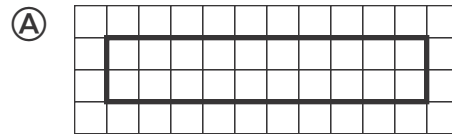
4. Mrs. Nanduri has 42 carpet squares. How should she arrange them so that she has the smallest perimeter?

- (A) 21 by 2 rectangle
- (B) 14 by 3 rectangle
- (C) 6 by 7 rectangle
- (D) 42 by 1 rectangle

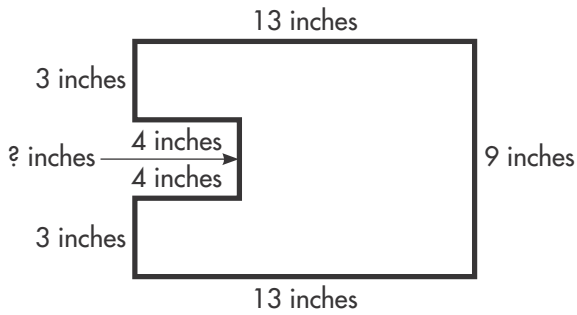
5. Hayley's garden design is below.



Which of the following shapes has a different area but the same perimeter as Hayley's design?



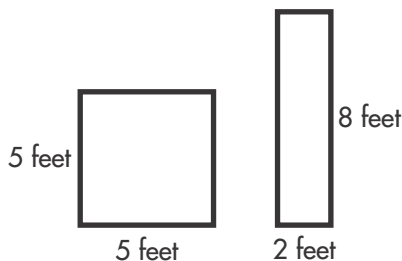
6. The perimeter of a game piece is 52 inches. What is the missing side length?



- (A) 2 inches (C) 4 inches
 (B) 3 inches (D) 9 inches

7. Mr. Higgs measures the perimeter of a common shape. One of the sides is 8 centimeters and the perimeter is 24 centimeters. If all of the sides are the same length, what shape does Mr. Higgs measure? Explain.

8. Tony drew two shapes. Select all of the statements that are true about the shapes.



- The shapes have different perimeters.
 The shapes have different areas.
 The shapes have the same perimeter.
 The shapes have the same area.
 The square has a greater area than the rectangle.

9. Chuck's trapezoid-shaped garden has a perimeter of 22 yards. He knows the length of three sides: 3 yards, 6 yards, and 9 yards. What is the length of the fourth side?

10. Mary's bedroom rug is shown below.



- A. Find the perimeter and area of the rug.

- B. Could a square with whole-number side lengths have the same perimeter as the rug? The same area? Explain.

11. The perimeter of a square garden is 112 feet. What is the side length? Find the dimensions of a rectangle with the same perimeter.