

Name \_\_\_\_\_

## Same Perimeter, Different Areas

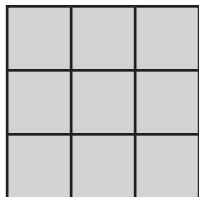


**COMMON CORE STANDARD** MACC.3.MD.4.8

Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

Find the perimeter and the area.  
Tell which rectangle has a greater area.

1.



A



B

A: Perimeter = 12 units;  
Area = 9 square units

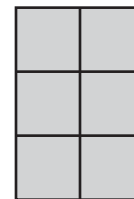
B: Perimeter = \_\_\_\_\_;  
Area = \_\_\_\_\_

Rectangle \_\_\_\_\_ has a greater area.

2.



A



B

A: Perimeter = \_\_\_\_\_;  
Area = \_\_\_\_\_

B: Perimeter = \_\_\_\_\_;  
Area = \_\_\_\_\_

Rectangle \_\_\_\_\_ has a greater area.

## Problem Solving



3. Tara's and Jody's bedrooms are shaped like rectangles. Tara's bedroom is 9 feet long and 8 feet wide. Jody's bedroom is 7 feet long and 10 feet wide. Whose bedroom has the greater area? **Explain.**

---

---

---

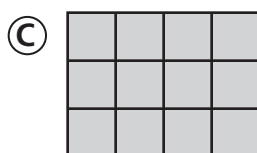
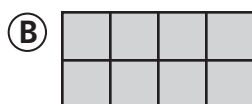
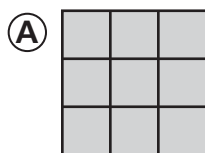
4. Mr. Sanchez has 16 feet of fencing to put around a rectangular garden. He wants the garden to have the greatest possible area. How long should the sides of the garden be?

---

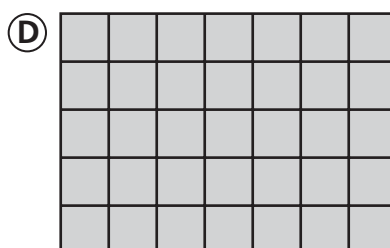
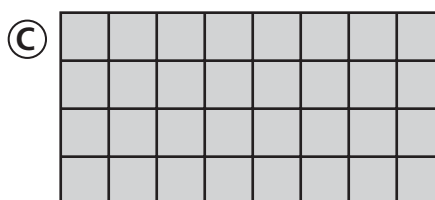
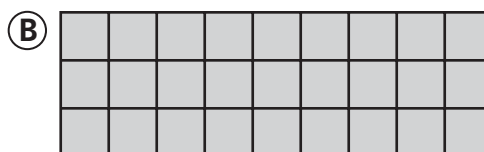
---

## Lesson Check (MACC.3.MD.4.8)

1. Which shape has a perimeter of 12 units and an area of 8 square units?



2. All four rectangles below have the same perimeter. Which rectangle has the greatest area?



## Spiral Review (MACC.3.MD.3.7, MACC.3.MD.3.7a, MACC.3.MD.4.8)

3. Kerrie covers a table with 8 rows of square tiles. There are 7 tiles in each row. What is the area that Kerrie covers in square units?

(Lesson 11.6)

- Ⓐ 15 square units  
Ⓑ 35 square units  
Ⓒ 42 square units  
Ⓓ 56 square units

4. Von has a rectangular workroom with a perimeter of 26 feet. The length of the workroom is 6 feet. What is the width of Von's workroom? (Lesson 11.3)

- Ⓐ 7 feet  
Ⓑ 13 feet  
Ⓒ 20 feet  
Ⓓ 26 feet