## MY Homework

## Homework Helper <br> $\square$ <br> Need help? $\llbracket$ connectED.mcgraw-hill.com

## A rectangle has a perimeter of 16 units. What is its greatest possible area?

Draw all of the possible rectangles with a perimeter of 16 .


If you reverse the dimensions of a rectangle, it will still have the same area.

2
Compare the areas of the rectangles. The greatest area is 16 square units.
So, 16 square units is the greatest possible area for a rectangle whose perimeter is 16 units.

## Practice

## Draw two possible rectangles for each perimeter. Find the area of each.

1. 20 units
2. 8 units

## Problem Solving

Mathematical
3. PRACTICE 2 Use Number Sense Tomás drew a rectangle with an area of 6 square centimeters. What is the greatest possible perimeter for this rectangle?
4. Danica has laid out floor tiles so they form a rectangle with a perimeter of 18 inches. What is the difference between the greatest and least possible areas of the rectangle?
5. A rectangle has an area of 30 square meters and a perimeter of 34 meters. What are the dimensions of the rectangle?

## Test Practice

6. A square has a perimeter of 28 feet. What is its area?
(A) 45 square feet
(C) 49 square feet
(B) 48 square feet
(D) 50 square feet
