Ho A re pos	Comework Helpe ectangle has a perimeter of sible area?	Need help?	ConnectED.mcgraw-hill.com
1	Draw all of the possible	e rectangles with a	perimeter of 16.
	Drawing	Rectangle Dimensions	Area
	1 7 7 1 + 7 + 1 + 7 = 16	1 × 7 (or 7 × 1)	A = 7 square units
		2 × 6 (or 6 × 2)	A = 12 square units
	$ \begin{array}{c} 3 \\ 5 \\ 3 + 5 + 3 + 5 = 16 \end{array} $	3 × 5 (or 5 × 3)	A = 15 square units
	4	4 × 4	A = 16 square units
	4 + 4 + 4 + 4 = 16		

perimeter is 16 units.

## Practice

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

1. 20 units

2. 8 units

My Work!



- **3. PRACTICE 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

