EXAMPLE

2 Find the perimeter and area of each square.

a. A square has a side length of 8 feet.

P = 4s Perimeter formula

 $= 4(8) \quad s = 8$

= 32 Multiply.

 $A = s^2$ Area formula

 $= 8^2 \qquad s = 8$

= 64 8² = 8 • 8 or 64

The perimeter is 32 feet, and the area is 64 square feet.

b. A square has a side length of 2 meters.

P = 4sPerimeter formula= 4(2)s = 2= 8Multiply. $A = s^2$ Area formula $= 2^2$ s = 2= 4 $2^2 = 2 \cdot 2$ or 4



The perimeter is 8 meters, and the area is 4 square meters.

Exercises Find the perimeter and area of each figure.



- 5. a rectangle with length 6 feet and width 4 feet
- 6. a rectangle with length 12 centimeters and width 9 centimeters
- 7. a square with length 3 meters
- 8. a square with length 15 inches
- 9. a rectangle with width $8\frac{1}{2}$ inches and length 11 inches
- 10. a rectangular room with width $12\frac{1}{4}$ feet and length $14\frac{1}{2}$ feet
- 11. a square with length 2.4 centimeters
- **12**. a square garden with length 5.8 meters
- **13. RECREATION** The Granville Parks and Recreation Department uses an empty city lot for a community vegetable garden. Each participant is allotted a space of 18 feet by 90 feet for a garden. What is the perimeter and area of each plot?