## EXAMPLE

2 Find the perimeter and area of each square.
a. A square has a side length of 8 feet.

$$
\begin{aligned}
P & =4 s & & \text { Perimeter formula } \\
& =4(8) & & s=8 \\
& =32 & & \text { Multiply. } \\
A & =s^{2} & & \text { Area formula } \\
& =8^{2} & & s=8 \\
& =64 & & 8^{2}=8 \cdot 8 \text { or } 64
\end{aligned}
$$



The perimeter is 32 feet, and the area is 64 square feet.
b. A square has a side length of $\mathbf{2}$ meters.

$$
\begin{aligned}
P & =4 s & & \text { Perimeter formula } \\
& =4(2) & & s=2 \\
& =8 & & \text { Multiply. } \\
A & =s^{2} & & \text { Area formula } \\
& =2^{2} & & s=2 \\
& =4 & & 2^{2}=2 \cdot 2 \text { or } 4
\end{aligned}
$$



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

## Exercises Find the perimeter and area of each figure.


2.

3.

4.

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?

