6 Perimeter and Area of Squares and Rectangles
Perimeter is the distance around a geometric figure. Perimeter is measured in linear units.

- To find the perimeter of a rectangle, multiply two times the sum of the length and width, or $2(\ell+w)$.
- To find the perimeter of a square, multiply four times the length of a side, or $4 s$.


$$
P=2(\ell+w) \text { or } 2 \ell+2 w
$$


$P=4 s$

Area is the number of square units needed to cover a surface. Area is measured in square units.

- To find the area of a rectangle, multiply the length times the width, or $\ell \cdot w$.
- To find the area of a square, find the square of the length of a side, or $s^{2}$.

$A=\ell w$

$A=s^{2}$

Exercises Find the perimeter and area of each figure.

3.

4.

5. a rectangle with length 6 feet and width 4 feet

$$
\text { perimeter }=2 l+2 w \quad \text { Area }=l \cdot w
$$

6. a rectangle with length 12 centimeters and width 9 centimeters

$$
\text { perimeter }=2 \ell+2 w \quad \text { Area }=Q \quad w
$$

7. a square with length 3 meters
perimeter $=45 \quad$ Areal $=52$
8. a square with length 15 inches
perimeter $=4 S \quad$ Area $S^{2}$
