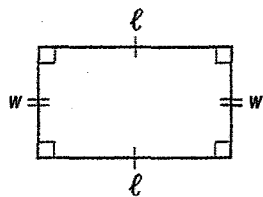


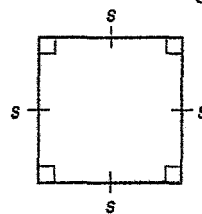
6 Perimeter and Area of Squares and Rectangles

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 $4s$.



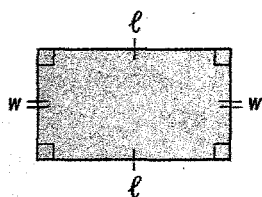
$$P = 2(\ell + w) \text{ or } 2\ell + 2w$$



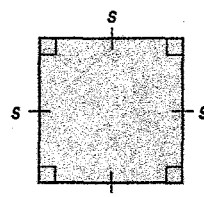
$$P = 4s$$

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 .



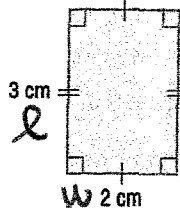
$$A = \ell w$$



$$A = s^2$$

Exercises Find the perimeter and area of each figure.

1.



$$\text{Perimeter} = 2\ell + 2w$$

$$\text{Area} = \ell \cdot w$$

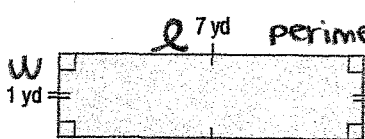
2.



$$\text{Perimeter} = 4s$$

$$\text{Area} = s^2$$

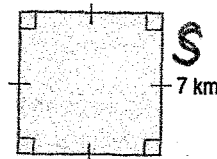
3.



$$\text{Perimeter} = 2\ell + 2w$$

$$\text{Area} = \ell \cdot w$$

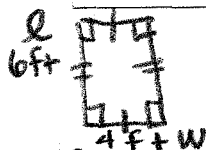
4.



$$\text{Perimeter} = 4s$$

$$\text{Area} = s^2$$

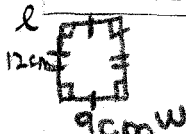
5. a rectangle with length 6 feet and width 4 feet



$$\text{Perimeter} = 2\ell + 2w$$

$$\text{Area} = \ell \cdot w$$

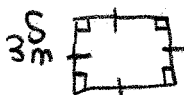
6. a rectangle with length 12 centimeters and width 9 centimeters



$$\text{Perimeter} = 2\ell + 2w$$

$$\text{Area} = \ell \cdot w$$

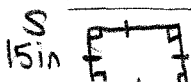
7. a square with length 3 meters



$$\text{Perimeter} = 4s$$

$$\text{Area} = s^2$$

8. a square with length 15 inches



$$\text{Perimeter} = 4s$$

$$\text{Area} = s^2$$