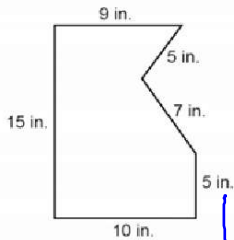
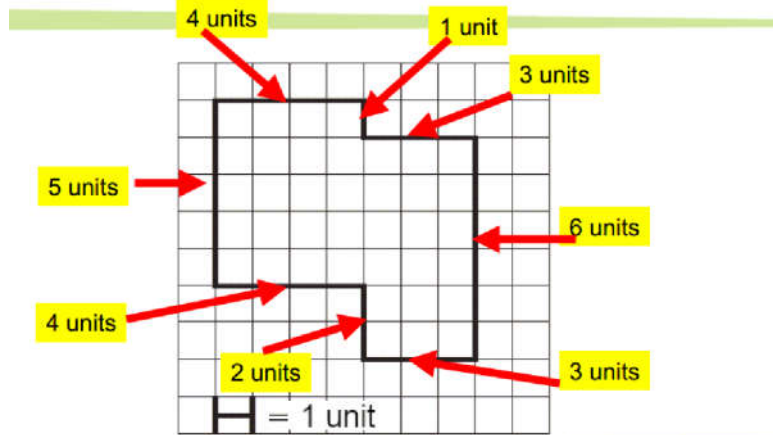
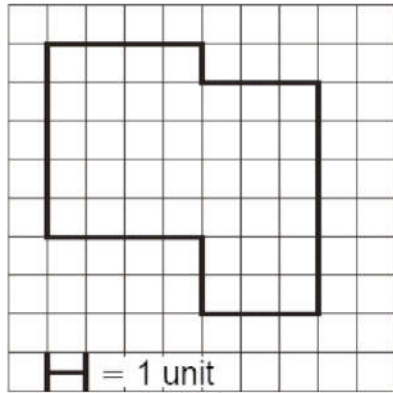


Perimeter

- The distance around a figure.

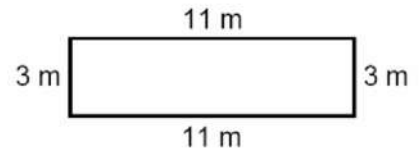
The perimeter of this shape is **28 units.**



The perimeter of this figure is **51 inches.**

$$15 + 9 + 5 + 7 + 5 + 10 = 51$$

- To calculate the perimeter of a regular figure add the lengths of all the sides!

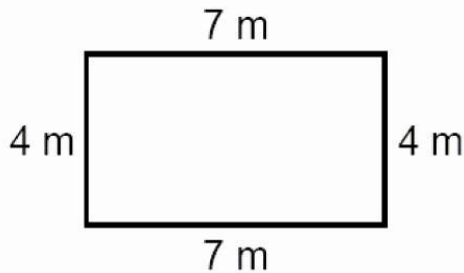


$$\text{Perimeter} = 11\text{m} + 3\text{m} + 11\text{m} + 3\text{m}$$

$$\text{Perimeter} = 28\text{m}$$

- Perimeter is always measured in linear units.

- Now you try...

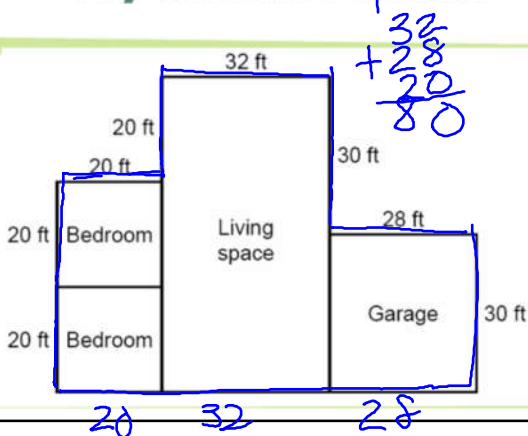


Work:

$$4 + 4 + 7 + 7$$

Perimeter: 22 m

Try another one...



Work:

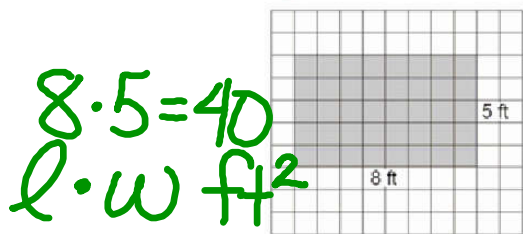
$$32 + 30 + 28 + 30 = 120$$

$$120 + 80 = 200$$

Perimeter: 280 ft

Area

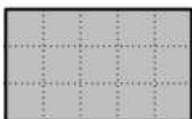
- The number of **square units** needed to cover the region inside a figure.



There are 40 squares covering the inside of the figure.

- Area is always measured in **square units!**

To find the area of a rectangle, find the total number of square units.



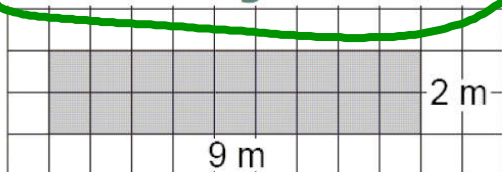
There are 3 rows of 5 squares.

$$3 \cdot 5 = 15$$

So, the area of the rectangle is 15 square units.

- To calculate the area of a regular figure use the formula:

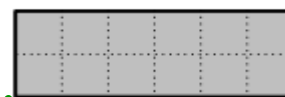
Area = Length x Width



$$\text{Area} = 9\text{m} \times 2\text{m}$$

$$\text{Area} = 18 \text{ square meters}$$

Find the area of each rectangle.



Area:

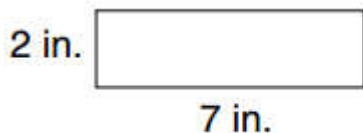
$$6 \cdot 2 = 12 \text{ units}^2$$



Area:

$$32 \text{ units}^2$$

Find the area of each rectangle.



A square room has sides that each measure 5 feet. How many square feet of carpet is needed to cover the room's entire floor?

Area:

$$6 \cdot 4 = 24 \text{ yd}^2$$

Area:

$$2 \cdot 7 = 14 \text{ in}^2$$

Area:

5

$$5 \cdot 5 = 25 \text{ ft}^2$$