

## AREA OF PLANE FIGURES

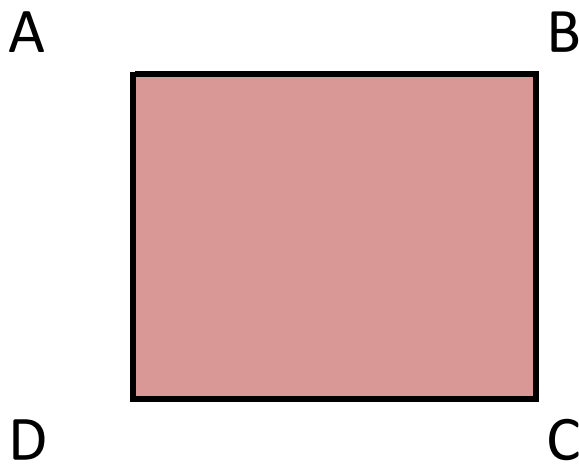
AREA - THE AREA OF A FIGURE IS THE REGION ENCLOSED WITHIN ITS BOUNDARY.

AREA OF A SQUARE = SIDE X SIDE

(where side is the length of any 1 side)

AREA OF A RECTANGLE = LENGTH X WIDTH

1 Find the area of a square having side = 6 cm



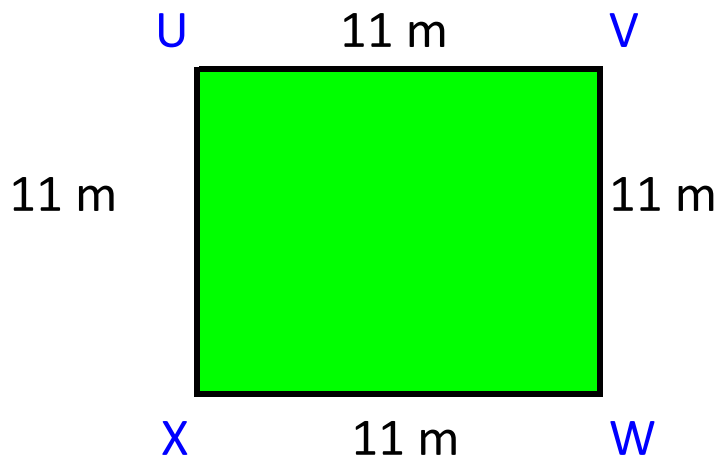
Solution -

Area of a square = side x side

Area of a square ABCD = 6 cm x 6 cm  
= 36 cm<sup>2</sup>

Ans - The area of the square is 36 cm<sup>2</sup>

2 Find the area of a square garden where each side of the garden is 11 m



Solution -

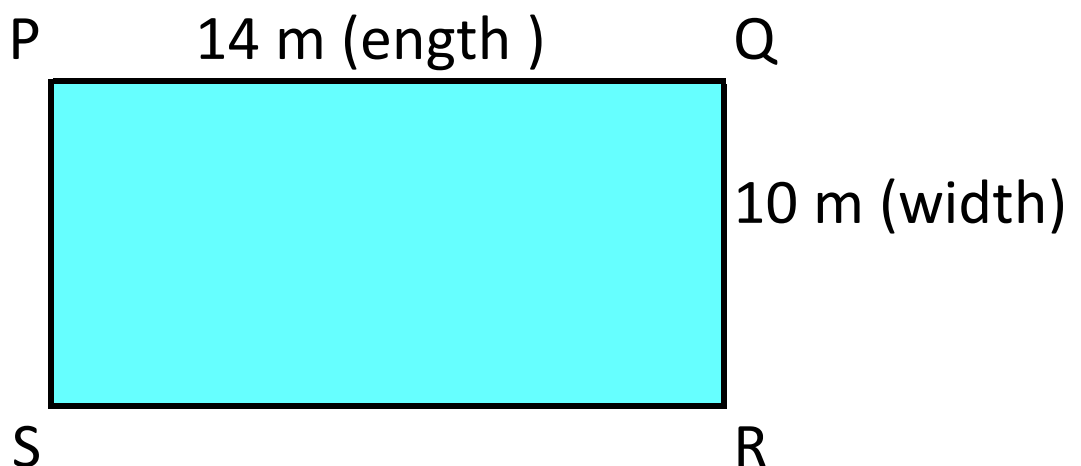
Area of a square = side x side

$$\begin{aligned} \text{Area of a square GARDEN UVWX} &= 11 \text{ m} \times 11 \text{ m} \\ &= 121 \text{ m}^2 \end{aligned}$$

Ans - the area of the square garden is  $121 \text{ m}^2$

3 Find the area of a rectangular swimming pool having length 14 m and breadth 10 m

Solution -



Area of the rectangle = length X width

$$\begin{aligned}\text{Area of the rectangular pool} &= 14 \text{ m} \times 10 \text{ m} \\ &= 140 \text{ m}^2\end{aligned}$$

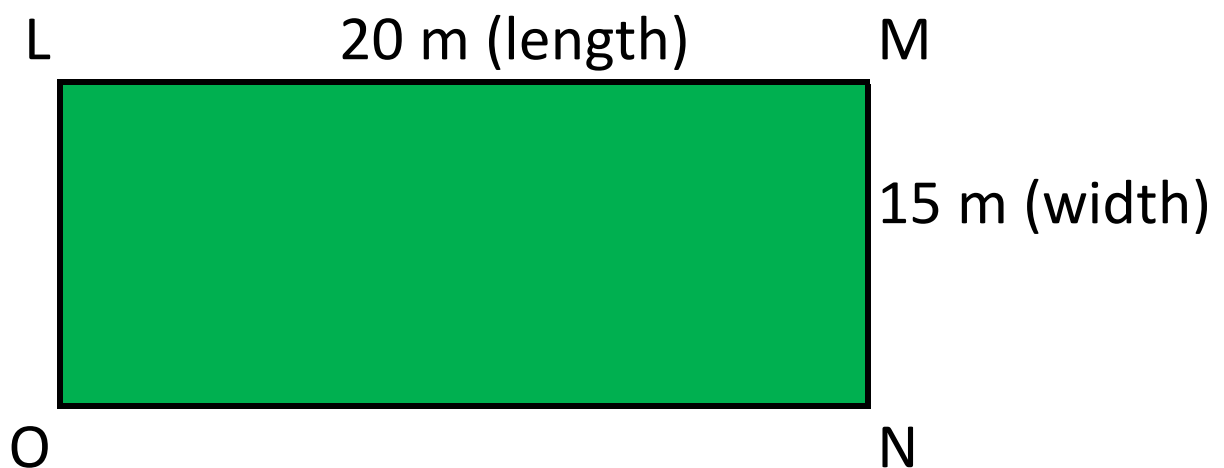
Ans - the area of the rectangular pool is  $140 \text{ m}^2$

4 A rectangular field has length 20 m and width 15 m

Find a) perimeter of the field

b) Area of the field

Solution -



a) Perimeter of a rectangle =  $2 ( l + W )$   
Perimeter of a rectangular field LMNO =  $2 ( 20 \text{ m} + 15 \text{ m} )$   
 $= 2 \times 35 \text{ m}$   
 $= 70 \text{ m}$

b) Area of a rectangle = length x width  
Area of a rectangle field LMNO =  $20 \text{ m} \times 15 \text{ m}$   
 $= 300 \text{ m}^2$