REMEMBER :

Perimeter of Rectangle = 2 x (Length + Breadth)

Perimeter of Square = 4 x side

Perimeter of Triangle = Sum of all sides

Q-2. Find the perimeter of the following rectangles –

   a.

  i   Length = 20 m , Breadth = 15m

         Perimeter = 2 x (Length + breadth)
                = 2 x (20 +15) = 2 x 35 = 70 m.

  ii Length = 240 m , Breadth = 120m

         Perimeter = 2 x (Length + breadth)
                = 2 x (240 +120) = 2 x 360 = 720 m.

   v.   Length = 30 m , Breadth = 15m

         Perimeter = 2 x (Length + breadth)
                = 2 x (30 +15) = 2 x 45 = 90 m.

  c.. Find the perimeter of the following squares –

   i. side = 3 m

Perimeter of square = 4 x side = 4 x 3 = 12 m

  ii . side = 20 m

Perimeter of square = 4 x side = 4 x 20 = 80m

Q-3. The side of a square field is 60m long . What will be the length of a fence going all around it ?

Sol : Side of a square field = 60m

Perimeter = 4 x side = 4 x 60 = 240m.

Q-5. The dimensions of a picture are 30cm x 20cm . What length of wooden frame is needed to frame the picture ?

Sol : Length of picture = 30cm

Breadth of picture = 20cm

Perimeter = 2 x (Length + Breadth)

= 2 x (30+20) = 2 x 50 = 100cm

Hence , length of wooden frame is 100cm.

Q-6. The length of a rectangular field is 100m . If its perimeter is 300m , what is its breadth ?

Sol : Let the breadth be x m .

Perimeter of rectangle = 300

2 x (Length + Breadth) = 300

2 X (100 + x) = 300

200 + 2x = 300

2x = 300 – 200 = 100

 x = 100/2 = 50m

Hence breadth = 50m

Q-8. Find the cost of fencing a rectangular park of length 175m and breadth 150m at the rate of Rs 12 per metre .

Sol : Length of the park = 175m

Breadth = 150m

Perimeter = 2 x (L +B) = 2 x (175 + 150) = 2 x 325 = 650m

Cost of fencing the park for 1 metre = 12

Cost of fencing the park for 650 metres =650 x 12 = Rs 7800

Q-9. The two sides of a triangular flag are 30cm and 40cm . Find the length of the third side if the perimeter of the flag is 130cm.

Sol : Let the 3rd side be x m

Perimeter of triangle = sum of all sides = 130

$$= 30 + 40 + x = 130$$

$$70 + x = 130$$

$$x = 130- 70 = 60$$

Hence the 3rd side is = 60m

REMEMBER –

Area of a Rectangle = Length x Breadth

Area of a square = Side x Side

Number of tiles $= \dfrac{Area\ of\ floor}{Area\ of\ a\ tile}$

Q-2. The length and breadth of a room are 6m and 4m respectively . How many square m of carpet are required to completely cover the floor of the room ? If the carpet cost Rs 240 per square m, how much it cost to cover the entire room?

Sol :Length of the room = 6m

Breadth = 4m

Area = Length x Breadth = 6 x 4 = 24m^2

Cost of carpet to cover 24 metre square = Rs 240 x 24 = Rs 5760.
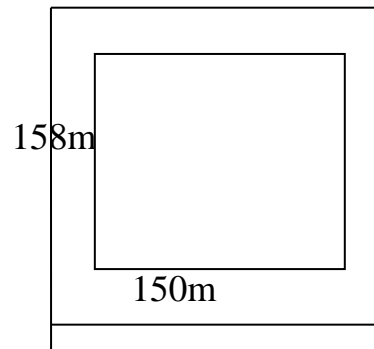
Q-3. Inside a square garden of side 158m , a road 4m wide is built all around . What is the area of the remaining part of the garden?

Sol : Side of a outer square = 158m

Area = side x side = 158 x158 = 24964m^2

Side of inner square = 150m

Area = side x side = 150 x150 = 22500 m^2

158m

150m

Q- 5. The area of a rectangular frame is 1125sq m . If its width is 25cm , what is its length ?

Sol :Let the length be Lm

 Width of the frame = 25cm

$$Area = L \times B = 1125$$

$$L \times 25 = 1125$$

$$L = 1125 / 25 = 45m$$

Q-6. Find the length of the side of the squares-

a. Let the side of the square be x m.
Area = 225 sq m
Side x side = 225
x X x = 225
$x^2 = 15^2$
x = 15m

b. Let the side of the square be x m.
Area = 81 sq mm
Side x side = 81
x X x = 81
$x^2 = 9^2$
x = 9 mm

Q-7. Find the length of the other side of the rectangle –

a. Area = 6750 sq m , side = 75m
Area = L x B = 6750
L x 75 = 6750
L = 6750 / 75 = 90m

Q-8. The area of a rectangular field is 120 sq m . If the length is 15m , find the breadth and the perimeter of the rectangle .

Sol ; Length of the rectangular field = 15m

$$\text{Area} = 120 \text{ sq m}$$

$$\text{L x B} = 120$$

$$15 \text{ x B} = 120$$

$$\text{B} = 120/\ 15 = 8m$$

$$\text{Perimeter} = 2 \text{ x } (\text{ L} + \text{B})$$

$$= 2 \text{ x } (15 + 8) = 2 \text{ x } 23 = 46 \text{ m} .$$

Q-9. A marble tile measures 25 cm by 20cm . How many tiles will be required to cover a wall of size 4m by 3 m ?

Sol : Length of the wall = 4 m = 4 x 100 = 400 cm

Breadth = 3 m = 3 x 100 = 300 cm

Area = L x B = 400 x 300 = 120000 cm^2

Length of the tile = 25 cm

Breadth = 20 cm

Area = L x B = 25 x 20 = 500 cm^2

Number of tiles required = = $\dfrac{Area\ of\ the\ wall}{Area\ of\ a\ tile}$ = $\dfrac{120000}{500}$ = 240 tiles .