

MATHEMATICS

Class-7th

Chapter-11

Perimeter
and Area

Exercise-11.1

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Class - VII

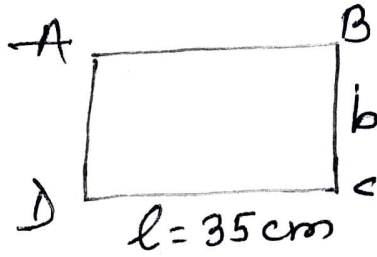
Mathematics

Ch - 11 Perimeter and Area.

Ex - 11.1 IInd part

Q. 4. Sol.

Let "b" is the width of rectangular sheet. Length = 35 cm.



Perimeter of rectangular sheet = 100 cm.

$$\Rightarrow 2(l+b) = 100$$

$$\Rightarrow 2(35+b) = 100$$

$$\Rightarrow 70 + 2b = 100$$

$$\Rightarrow 2b = 100 - 70 = 30 \therefore b = \frac{30}{2} = 15 \text{ cm.}$$

Hence, width of rectangular sheet = 15 cm.

Now, Area of this sheet

$$= l \times b$$

$$= (35 \times 15) \text{ cm}^2 = 525 \text{ cm}^2 \text{ Ans.}$$

Q. 5. Sol.

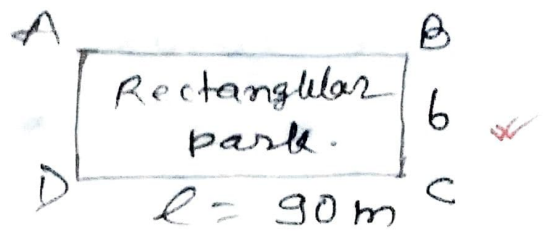
side of square park = 60 m.

Area of sq. park = side \times side

$$= 60 \times 60 \text{ m}^2$$

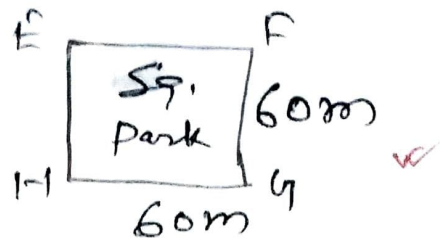
$$= 3600 \text{ m}^2$$

Let 'b' is the width of rectangular park and its length = 90m.



Given that,

Area of rectangular park = area of sq. park.



Hence, $l \times b = 3600$

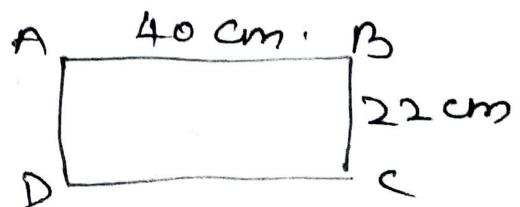
$$\Rightarrow 90 \times b = 3600$$

$$\Rightarrow b = \frac{3600}{90} = 40\text{m.}$$

Hence, width of rectangular park = 40m. Ans.

Q.6. Sol. Length of rectangle $l = 40\text{cm}$.
Its width = 22cm

Total length of wire
= perimeter of rectangle



$$\Rightarrow 2(l + b)$$

$$\Rightarrow 2(40 + 22) \Rightarrow 2 \times 62 = 124\text{cm}$$

Same wire is rebent in the shape of square.

Therefore, perimeter of sq = 124 cm

$$\Rightarrow 4 \times \text{side} = 124$$

$$\Rightarrow \text{side} = \frac{124}{4} = \underline{31 \text{ cm}}$$

Hence, side of square = 31 cm.

Now, Area of square = side \times side

$$= 31 \times 31 \text{ cm}^2$$

$$= \underline{961 \text{ cm}^2}$$

And, Area of rectangle

$$= l \times b$$

$$= 40 \times 22 = 880 \text{ cm}^2$$

Here, we see that area of

square is more than

the area of rectangle. Ans.

End of en - 11.1.