

MATHEMATICS

Class-7th

Chapter-11

Perimeter
and Area

Exercise-11.1

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Mathematics

Class - VII

Ch - 11. Perimeter and Area.

Ex - 11.1.

Important formulas

Perimeter: It is the distance around a closed plane figure.

(i) Perimeter of rectangle = $2 \times (l + b)$ ✓

Length = $\frac{1}{2} \times p - b$ ✓

Width = $\frac{1}{2} \times p - l$ ✓

(ii) Perimeter of square = $4 \times \text{side}$.

Side of sq = $\frac{\text{perimeter}}{4}$ ✓

Area: It is the space occupied by closed plane figure.

(i) Area of rectangle = $l \times b$.

Length = $\frac{\text{Area}}{\text{width}}$ ✓

width = $\frac{\text{Area}}{\text{length}}$ ✓

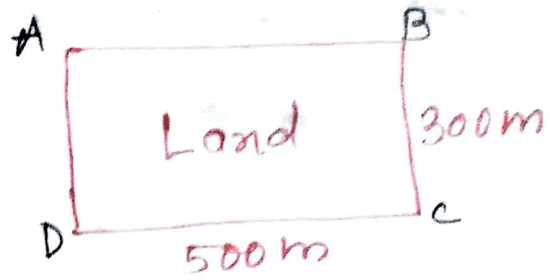
(ii) Area of square = side \times side
= $(\text{side})^2$.

(iii) Area of circle = πr^2 . $\pi = \frac{22}{7}$ ✓

Q.1. Sol.

Length of rectangular piece of land = 500m

And its width = 300m

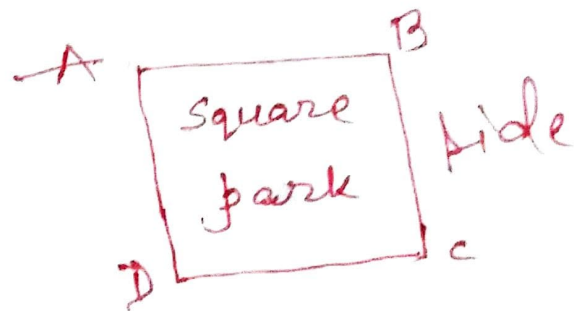


(i) Area of rectangular piece of land = $l \times b$
 $= 500 \times 300 \text{ m}^2$
 $= \underline{1,50,000 \text{ m}^2}$ Ans.

(ii) Cost of 1 m^2 of land = ₹ 10,000
So, cost of $1,50,000 \text{ m}^2$ of land = ₹ $10,000 \times 1,50,000$
 $= \underline{₹ 1,50,00,00,000}$ Ans.

Q.2. Sol.

Perimeter of park = 320m.
(Given)



We know that,
perimeter of square = $4 \times \text{side}$
or, $\text{side} = \frac{\text{perimeter}}{4}$
 $= \frac{320}{4} = \underline{80 \text{ m}}$

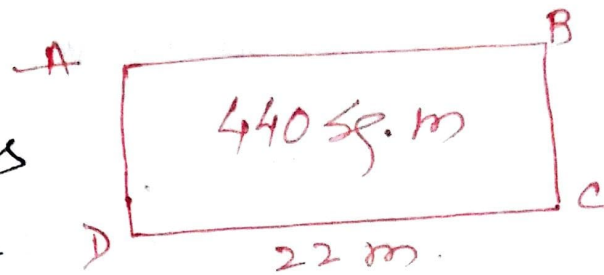
Therefore, area of this square
park = side \times side

$$= (80 \times 80) \text{ m}^2$$

$$= \underline{6,400 \text{ m}^2} \quad \text{Ans.}$$

Q.3. Sol.

Here, length of this
rectangular plot



of land = 22 m. (given)

And area = 440 m². (given)

We know that, Area of rectangle = $l \times b$

$$\Rightarrow l \times b = 440$$

$$\Rightarrow 22 \times b = 440$$

$$\Rightarrow b = \frac{440}{22} = \underline{20 \text{ m.}}$$

Now, Perimeter of given rectangular

$$\text{plot} = 2 \times (l + b)$$

$$= 2 \times (22 + 20) \text{ m}$$

$$= 2 \times 42 \text{ m}$$

$$= 84 \text{ m.} \quad \text{Ans.}$$