

Perimeter & Area Of Plane Figures

Class VI

Assignment i

Instructions to the students : The notes provided must be copied to the math's copy & then do the Home Work in the same copy.

- The perimeter of a closed plane figure is the length of its boundary
- The units of measurement of perimeter is the same as that of length
- Perimeter of a rectangle = $2(\text{length} + \text{breadth})$

Perimeter Of A Regular Polygon

- Perimeter of a square = $4 \times \text{length of a side}$
- Perimeter of an equilateral triangle = $3 \times \text{length of a side}$
- Perimeter of a regular pentagon = $5 \times \text{length of a side}$
- Perimeter of a regular hexagon = $6 \times \text{length of a side}$

Examples

- i) Find the perimeter of a rectangle whose length & breadth are 150cm & 1m respectively.

Solution : length of the rectangle = 150cm
Breadth of rectangle = 1m = 100cm
Perimeter of the rectangle = $2(\text{length} + \text{breadth})$
 $= 2(150\text{cm} + 100\text{cm})$
 $= (2 \times 250)\text{cm}$
 $= 500\text{cm} = 5 \text{ m}$

- ii) The length of 3 sides of a triangle are 14cm , 17cm & 25cm. find the perimeter of triangle

Solution : perimeter of a triangle = sum total of all sides
 $= (14 + 17 + 25)\text{cm}$
 $= 56\text{cm}$

- iii) Each side of a square field is 9 meter. Find the perimeter of the field

Solution : Side of the field = 9m

$$\begin{aligned}\text{Perimeter of the field} &= 4 \times l \\ &= (4 \times 9) \text{ m} \\ &= 36\text{m}\end{aligned}$$

- iv) Each side of a square field is 85m. find the distance covered by the man going around the field 5 times

Solution : length of each side of the field = 85m

$$\text{Perimeter of the field} = (4 \times 85)\text{m} = 340\text{m}$$

Distance covered by the man in 1 round = 340m

$$\text{Distance covered by the man in 5 rounds} = (340 \times 5)\text{m} = 1770\text{m}$$

Home work

Ex. 14.1

Q No. {1, 2, 4, 7, 10, 11 & 12}