

Revision Notes

Chapter -11

Perimeter and Area

- Perimeter is the distance around a closed figure whereas area is the part of plane occupied by the closed figure.
- Area is the measure of the part of plane or region enclosed by it.
- We have learnt how to find perimeter and area of a square and rectangle in the earlier class. They are:
 - (a) Perimeter of a square = 4 × side
 - (b) Perimeter of a rectangle = 2 × (length + breadth)
 - (c) Area of a square = side × side
 - (d) Area of a rectangle = length × breadth
- Area of a parallelogram = base × height
- Area of a triangle = $\frac{1}{2}$ (area of the parallelogram generated from it)

$$=\frac{1}{2} \times base \times height$$

- Area of equilateral triangle = $\frac{\sqrt{3}}{4} \times (side)^2$
- The distance around a circular region is known as its circumference.
- The ratio of circumference and diameter of a circle is a constant is denoted by π (pi).
- Circumference of a circle = π d, where d is the diameter of a circle and $\pi = \frac{22}{7} \ or \ 3.14$ (approximately).
- Area of a circle = 70.2, where r is the radius of the circle.
- Based on the conversion of units for lengths, studied earlier, the units of areas can also be converted:

$$I cm^2 = I00 mm^2$$

 $I m^2 = I0000 cm^2$,
 $I hectare = I0000 m^2$