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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 = $2 \times (length + breadth)$
 - (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 = πd , where d is the diameter of a circle and $\pi = \frac{\pi}{7}$ or 3.14 (approximately).
- Area of a circle = πr^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: $1 \text{ cm}^2 = 100 \text{ mm}^2$

$$1 m^2 = 10000 cm^2$$
,

$$1 hectare = 10000 m^2$$