

WHAT HAVE WE DISCUSSED?

- Perimeter is the distance around a closed figure whereas area is the part of plane occupied by the closed figure.
- We have learnt how to find perimeter and area of a square and rectangle in the earlier class. They are:
 - Perimeter of a square = $4 \times \text{side}$
 - Perimeter of a rectangle = $2 \times (\text{length} + \text{breadth})$
 - Area of a square = $\text{side} \times \text{side}$
 - Area of a rectangle = $\text{length} \times \text{breadth}$
- Area of a parallelogram = $\text{base} \times \text{height}$
- Area of a triangle = $\frac{1}{2}$ (area of the parallelogram generated from it)
 $= \frac{1}{2} \times \text{base} \times \text{height}$
- The distance around a circular region is known as its circumference.

Circumference of a circle = πd , where d is the diameter of a circle and $\pi = \frac{22}{7}$ 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:

$$1 \text{ cm}^2 = 100 \text{ mm}^2,$$

$$1 \text{ m}^2 = 10000 \text{ cm}^2,$$

$$1 \text{ hectare} = 10000 \text{ m}^2.$$

