



মণিপুরৰ শিক্ষা বিভাগ (অঃমঃ)

**DEPARTMENT OF EDUCATION (S)**  
Government of Manipur

## Chapter 11

### Perimeter and Area

#### NOTES:

Perimeter is the distance around a closed figure while area is the part of plane or region occupied by the closed figure.

Perimeter of a regular polygon = number of sides  $\times$  length of one side.

Perimeter of a square =  $4 \times$  side

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

Area of a rectangle =  $l \times b$  where  $l$  is the length and  $b$  is the breadth.

Area of a square = side  $\times$  side .

NB: The increase of perimeter need not lead to increase in area.

Area of a parallelogram = base  $\times$  height .

Any side of a parallelogram can be chosen as base of the parallelogram . The perpendicular dropped on that side from the opposite vertex is known as height or altitude

Area of a triangle =  $\frac{1}{2} \times$  base  $\times$  height.

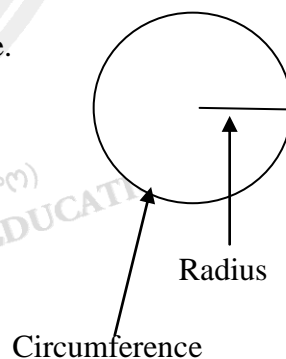
The distance around a circular region is known as its circumference.

Circumference =  $2\pi r$  where  $r$  is the radius of the circle and  $\pi = \frac{22}{7}$  .

Length of two radii make length of one diameter

Area of circle =  $\pi r^2$  .

1 metre =  $\frac{1}{10000}$  hectare



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