



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 = πr^2 .

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



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