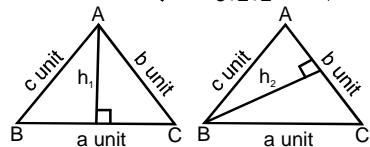
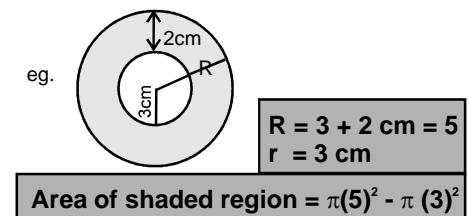
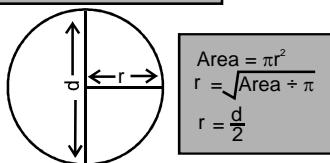
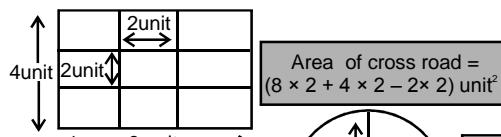
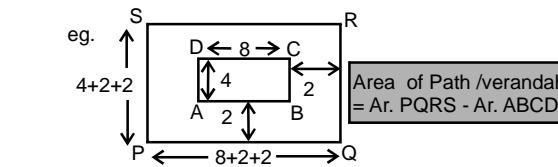
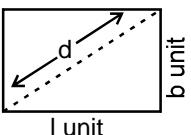
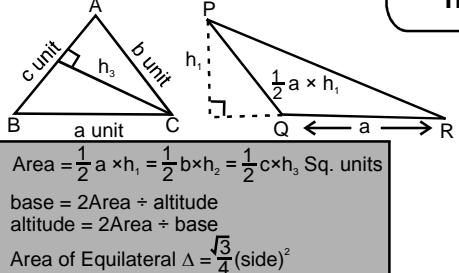


AREA



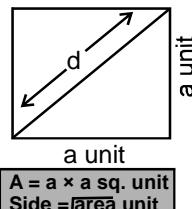
Triangle



Rectangle

$\text{Area} = l \times b \text{ sq. units}$
length = $(\text{Area} \div \text{breadth}) \text{ unit}$
breadth = $(\text{Area} \div \text{length}) \text{ unit}$
 $d = \sqrt{l^2 + b^2}$

Square



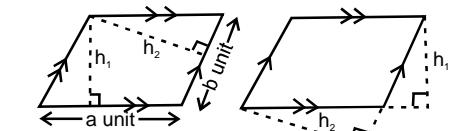
$A = a \times a \text{ sq. unit}$
Side = area unit
 $d = 2a$

Area

Measure of Region
Enclosed by a closed
Rectilinear Figure

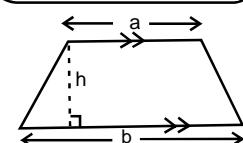
Circle

Parallelogram



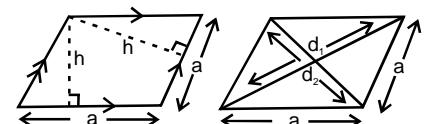
$\text{Area} = a \times h_1 \text{ sq. unit} = b \times h_2 \text{ sq. units}$
base = $\text{Area} \div \text{corresponding altitude}$
altitude = $\text{Area} \div \text{corresponding base}$

Trapezium



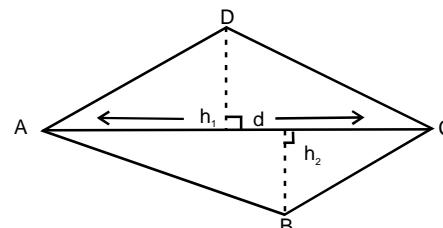
$$A = \frac{1}{2} h \times (a + b) \text{ sq. units}$$

Rhombus :



$$\text{Area} = a \times h \text{ sq. units} = \frac{1}{2} d_1 \times d_2 \text{ sq. units}$$

Quadrilateral :



$$\text{Area} = \frac{1}{2} \times \text{diagonal} \times \text{sum of offsets}$$

$$= \frac{1}{2} \times d \times [h_1 + h_2] \text{ sq. units}$$

When to calculate Area :

- (a) Painting / white washing
- (b) levelling
- (c) Ploughing
- (d) grazing / watering

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

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

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