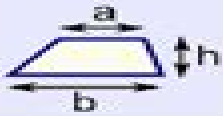
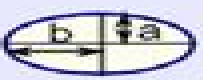


Area of Plane Shapes

By Surinder Kumar DRP Pathankot

	<u>Triangle</u> $\text{Area} = \frac{1}{2} \times b \times h$ b = base h = vertical height		<u>Square</u> $\text{Area} = a^2$ a = length of side
	<u>Rectangle</u> $\text{Area} = w \times h$ w = width h = height		<u>Parallelogram</u> $\text{Area} = b \times h$ b = base h = vertical height
	<u>Trapezoid (US)</u> <u>Trapezium (UK)</u> $\text{Area} = \frac{1}{2}(a+b) \times h$ h = vertical height		<u>Circle</u> $\text{Area} = \pi \times r^2$ Circumference = $2 \times \pi \times r$ r = radius
	<u>Ellipse</u> $\text{Area} = \pi ab$		<u>Sector</u> $\text{Area} = \frac{1}{2} \times r^2 \times \theta$ r = radius θ = angle in radians

Note: h is at right angles to b : 

Example: What is the area of this rectangle?



The formula is:

$$\begin{aligned} \text{Area} &= w \times h \\ w &= \text{width} \\ h &= \text{height} \end{aligned}$$

We know $w = 5$ and $h = 3$, so:

$$\text{Area} = 5 \times 3 = \mathbf{15}$$

Geometry Test Of Area Of Plane Figures

Wolfgang Guggemos



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