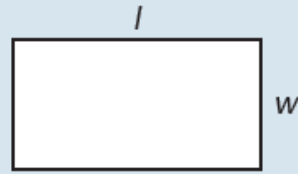


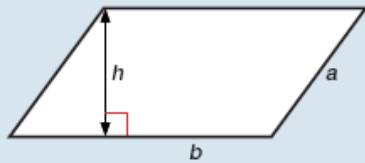
Foundation Tier : Formulae to learn

Areas

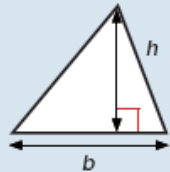
Rectangle = $l \times w$



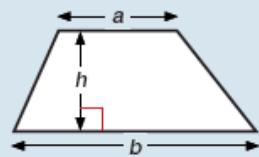
Parallelogram = $b \times h$



Triangle = $\frac{1}{2} b \times h$



Trapezium = $\frac{1}{2} (a + b)h$

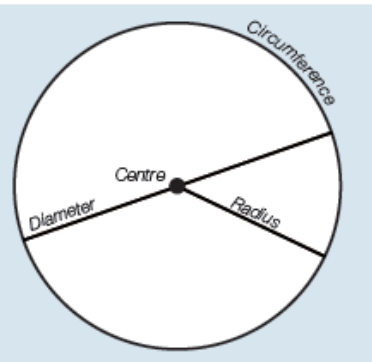


Circles

Circumference = $\pi \times \text{diameter}$, $C = \pi d$

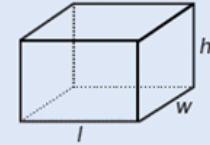
Circumference = $2 \times \pi \times \text{radius}$, $C = 2\pi r$

Area of a circle = $\pi \times \text{radius squared}$ $A = \pi r^2$

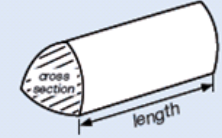


Volumes

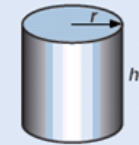
Cuboid = $l \times w \times h$



Prism = area of cross section \times length



Cylinder = $\pi r^2 h$



Compound Measures

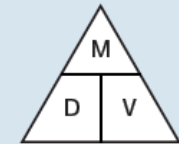
Speed

speed = $\frac{\text{distance}}{\text{time}}$



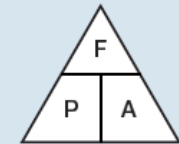
Density

density = $\frac{\text{mass}}{\text{volume}}$



Pressure

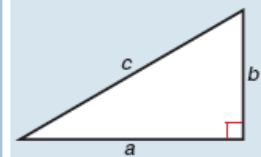
pressure = $\frac{\text{force}}{\text{area}}$



Pythagoras

Pythagoras' Theorem

For a right-angled triangle, $a^2 + b^2 = c^2$



Trigonometric ratios (new to F)

$\sin x^\circ = \frac{\text{opp}}{\text{hyp}}$, $\cos x^\circ = \frac{\text{adj}}{\text{hyp}}$, $\tan x^\circ = \frac{\text{opp}}{\text{adj}}$

