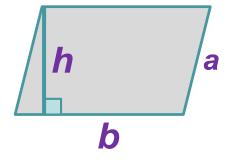


RECTANGLE / x w

PARALLELOGRAM b x h



Area

Remember

$$x + x = \lambda x$$

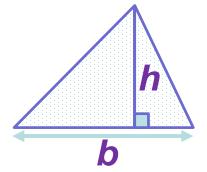
$$x x x = x^2$$

Indices

$$x^a \times x^b = x^{a+b}$$

e.9.
$$x_0 \times x_2 = x_0$$

TRIANGLE

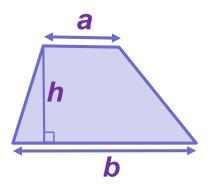


$$\frac{1}{2}bxh$$

TRAPEZIUM

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





Remember

$$\mathbf{x}^0 = \mathbf{1}$$

Onything to the power of zero = 1

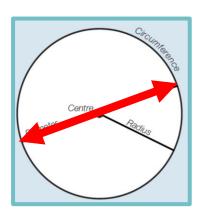
Indices

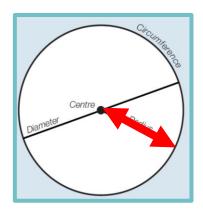
$$x^a + x^b = x^{a-b}$$

e.9.
$$x6 + x2 = x4$$

CIRCUMFERENCE = $\pi \times diameter$

circles



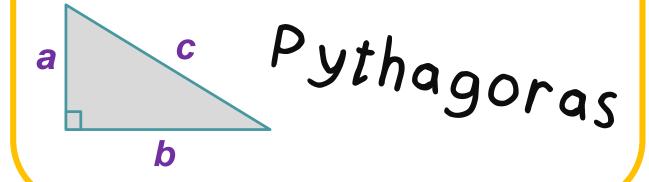


 Λ REA $\pi \times radius^2$

Circles

FOR RIGHT-ANGLED TRIANGLES

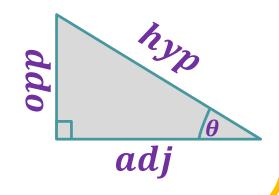
$$a^2 + b^2 = c^2$$



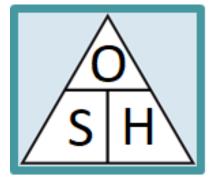
Trigonometry

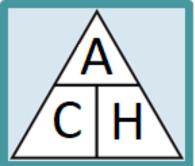
$$Sin \theta = \frac{opp}{hyp}$$

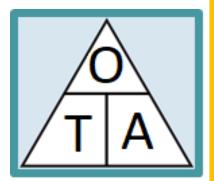




Trigonometry







Some old horses can always hear their owners approach

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Sine Rule

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

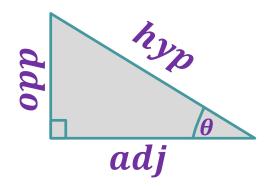
Sine Rule

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Trigonometry

$$\cos\theta = \frac{adj}{hyp}$$

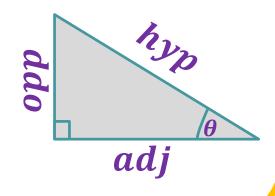




Trigonometry

$$tan \theta = \frac{opp}{adj}$$





Cosine Rule

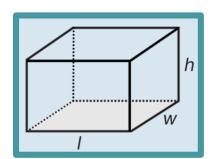
$$a^2 = b^2 + c^2 - 2bc \, CosA$$

Cosine Rule

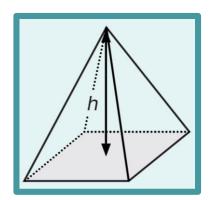
$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

Volume

CUBOID $l \times w \times h$



Volume



PYRAMID

 $\frac{1}{3}$ area of base x h

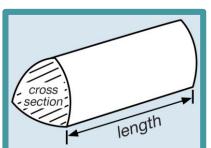
The mode appears most often in a set of numbers e.s. 6,3,9,6,6,5,9,3 Mode is 6. Averages

Indices
$$(x^a)^b = x^a x^b$$
e.9.
$$(x^6)^2 = x^2$$

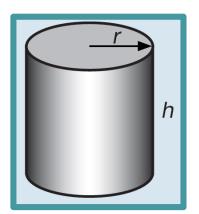
PRISM

area of cross section
× length

Volume



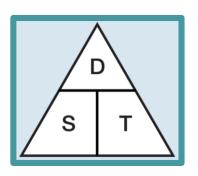
Volume



CYLINDER

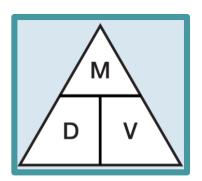
 $=\pi r^2 h$

$$\frac{\mathsf{SPEED}}{\mathsf{time}} = \frac{distance}{\mathsf{time}}$$



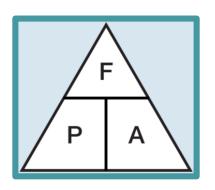
Speed

DENSITY = $\frac{mass}{volume}$



Density

$$PRESSURE = \frac{force}{area}$$



Pressure

The median is the middle number (SORT THEM FIRST)

e.9. 3, 5, 6, 6, 7, 9, 9,

Median is 6. Averages

$$\sin 0^{o} = 0$$
 $\sin 90^{o} = 1$
 $\cos 0^{o} = 1$ $\cos 90^{o} = 0$
 $\tan 0^{o} = 0$ $\tan 90^{o} = undefined$
Exact 66Trig⁹⁹ Values

	30°	45°	60°
sin	$\left(\frac{1}{2}\right)$	$\sqrt{\frac{\sqrt{2}}{2}}$	$\left(\frac{\sqrt{3}}{2}\right)$
cos	$\frac{\sqrt{3}}{2}$	$\left \frac{\sqrt{2}}{2} \right $	$\left(\frac{1}{2}\right)$
tan	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$

Exact
"Trig"
Values

