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30 Essential Facts for High School Maths

$$\text{Area of a triangle} = \frac{1}{2} \times \text{base} \times \text{height}$$

$$\text{Area of a trapezium} = \frac{1}{2} (a + b) \times \text{height}$$

$$\text{Area of a parallelogram} = \text{base} \times \text{height}$$

$$\text{Area of a circle} = \pi r^2 \quad \text{Circumference} = \pi D$$

$$\begin{aligned} \text{Volume of a prism} \\ &= \text{cross section area} \times \text{length} \end{aligned}$$

$$\text{Volume of a pyramid} = \frac{1}{3} \text{ base area} \times \text{height}$$

$$\text{Pythagoras } a^2 + b^2 = c^2$$

SohCahToa

$$\text{Sine Rule} \quad \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\text{Cosine Rule} \quad a^2 = b^2 + c^2 - 2bc \cos A$$

$$\text{Area of a triangle} = \frac{1}{2} ab \sin C$$

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

$$y = mx + c$$

$$\text{Gradient} = 'm' \quad \text{y-intercept} = 'c'$$

$$\text{Perpendicular Gradient} = -\frac{1}{m}$$

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

$$x^2 + bx + c = (x + (\frac{b}{2}))^2 - (\frac{b}{2})^2 + c$$

$$x^m \times x^n = x^{(m+n)}$$

$$x^m \div x^n = x^{(m-n)}$$

$$(x^m)^n = x^{mn}$$

$$x^0 = 1$$

$$x^{\frac{1}{2}} = \sqrt{x}$$

$$x^{\frac{m}{n}} = \sqrt[n]{x^m}$$

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

$$\sqrt{a} \times \sqrt{a} = a$$

Proving Congruency of triangles:
SSS SAS AAS RHS

$$\text{Histograms: } \frac{\text{Frequency}}{\text{Density}} = \frac{\text{frequency}}{\text{Class Width}}$$

$$\text{Exterior angle of a regular polygon} = \frac{360^\circ}{\text{number of sides}}$$

High School General Math Formulas

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Hull Barnes, Laura Wentworth**



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