



GCSE 9-1 MATHEMATICS FORMULAE

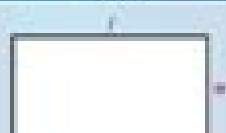
SUITABLE FOR AQA AND EDEXCEL / HIGHER TIER

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Formulae to Memorise

You will not be given these formulae in the exam

Areas



Area of a rectangle = $l \times w$



Area of a parallelogram = $b \times h$



Area of a triangle = $\frac{1}{2} b \times h$



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

Volumes



Volume of a cuboid = $l \times w \times h$



Volume of a prism =
area of cross section \times length



Volume of a cylinder = $\pi r^2 h$



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

Circumference and Area of a Circle



Circumference of a circle = $2\pi r = \pi d$
Area of a circle = πr^2

Pythagoras' Theorem



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

Compound Measures

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

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

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

The Quadratic Formula

The solutions of $ax^2 + bx + c = 0$, where $a \neq 0$, are given by:

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

Trigonometry



$\sin x = \frac{\text{OPP}}{\text{HYP}}$ $\cos x = \frac{\text{ADJ}}{\text{HYP}}$ $\tan x = \frac{\text{OPP}}{\text{ADJ}}$



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

Cosine Rule $a^2 = b^2 + c^2 - 2bc \cos A$

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

Compound Interest

Where P is the principal amount, r is the interest rate (as a percentage) and n is the number of times that the interest is compounded.

$$\text{Total accrued} = P \left(1 + \frac{r}{100} \right)^n$$

Probability

Where P(A) is the probability of outcome A and P(B) is the probability of outcome B:

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

Conditional Probability

$$P(A \text{ and } B) = P(A \text{ given } B) \times P(B)$$

Formulae given in the Exam

You do not need to memorise these formulae

Volume and Surface Area



Curved surface area of a cone = $\pi r l$

Volume of a cone = $\frac{1}{3} \pi r^2 h$



Surface area of a sphere = $4\pi r^2$

Volume of a sphere = $\frac{4}{3} \pi r^3$

Kinematic Formulae

Where a is constant acceleration, u is initial velocity, v is final velocity, s is displacement from the position where $t = 0$ and t is time taken.

$$v^2 = u^2 + at^2$$

$$s = ut + \frac{1}{2} at^2$$

$$v^2 = u^2 + 2as$$

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LL Leslie

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