



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

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

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

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

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



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



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

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

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

Compound Interest

Where P is the principal amount, r is the interest rate (as a percentage), 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 = $\pi r l$

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



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

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

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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Table of Contents Gcse Edexcel 2015 Calculator

1. Understanding the eBook Gcse Edexcel 2015 Calculator
 - The Rise of Digital Reading Gcse Edexcel 2015 Calculator
 - Advantages of eBooks Over Traditional Books
2. Identifying Gcse Edexcel 2015 Calculator
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gcse Edexcel 2015 Calculator
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gcse Edexcel 2015 Calculator
 - Personalized Recommendations
 - Gcse Edexcel 2015 Calculator User Reviews and Ratings
 - Gcse Edexcel 2015 Calculator and Bestseller Lists

5. Accessing Gcse Edexcel 2015 Calculator Free and Paid eBooks
 - Gcse Edexcel 2015 Calculator Public Domain eBooks
 - Gcse Edexcel 2015 Calculator eBook Subscription Services
 - Gcse Edexcel 2015 Calculator Budget-Friendly Options
6. Navigating Gcse Edexcel 2015 Calculator eBook Formats
 - ePub, PDF, MOBI, and More
 - Gcse Edexcel 2015 Calculator Compatibility with Devices
 - Gcse Edexcel 2015 Calculator Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gcse Edexcel 2015 Calculator
 - Highlighting and Note-Taking Gcse Edexcel 2015 Calculator
 - Interactive Elements Gcse Edexcel 2015 Calculator
8. Staying Engaged with Gcse Edexcel 2015 Calculator
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gcse Edexcel 2015 Calculator
9. Balancing eBooks and Physical Books Gcse Edexcel 2015 Calculator
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gcse Edexcel 2015 Calculator
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gcse Edexcel 2015 Calculator
 - Setting Reading Goals Gcse Edexcel 2015 Calculator
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gcse Edexcel 2015 Calculator
 - Fact-Checking eBook Content of Gcse Edexcel 2015 Calculator
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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