



# 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 =  $\pi r^2$

## 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) over a given period 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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## **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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