

Number

...or **NUMB**, for the correct order of operations, take care when using a calculator.

- Brackets
- Orders (or powers)
- Division and Multiplication
- Addition and Subtraction

Types of number

Integer: a 'whole' number
Factors: the divisors of an integer
• Factors of 12 are 1, 2, 3, 4, 6, 12
Multiples: a 'times table' for an integer (with infinite multiples)
• Multiples of 12 are 12, 24, 36, ...
Prime numbers: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

Units

Highest Common Factor (HCF)
• Factors of 6 are 1, 2, 3, 6
Factors of 9 are 1, 3, 9
HCF of 6 and 9 is 3

Lowest Common Multiple (LCM)

• Multiples of 6 are 6, 12, 18, 24, ...
Multiples of 9 are 9, 18, 27, 36, ...
LCM of 6 and 9 is 18

Power notation

Write a number as a product of its prime factors, and follow for repeated factors.
• $120 = 2 \times 2 \times 2 \times 3 \times 5$

Indices and roots

Special indices for any value a
 $a^0 = 1$
 $a^{-1} = \frac{1}{a}$
 $a^{\frac{1}{2}} = \sqrt{a}$

Ordering with fractions

Adding or subtracting fractions, use a common denominator.
• $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Multiplying fractions

Multiplying fractions: multiply numerators and denominators.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Dividing fractions

Dividing fractions: 'flip' the second fraction, then multiply.
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

Prime factorisation

Factorise an integer as a product of its prime factors.
• $12 = 2 \times 2 \times 3 = 2^2 \times 3$

Least common multiple

12	18	24	36	48	60
12	18	24	36	48	60

Algebra

Look for the biggest square number factor of the coefficient.
• $12x^2 = 4 \times 3 \times x^2 = 4x^2 \times 3x$

Standard form

Standard form numbers are of the form: $a \times 10^n$ where $1 \leq a < 10$ and n is an integer.

Scientific notation

1 metre = 1000 millimetres
1 kilometre = 1000 metres
1 metre = 100 centimetres
1000 millimetres = 1000 millimetres
1 kilometre = 1000 metres

1 day = 24 hours
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Converting

Transfer the number, then add or 'multiply/divide' by moved up or down.
Decimal places: use the decimal point.
• 100, 1000, 10000, ...

Significant figures

Significant figures: use the first non-zero digit.
• 100, 1000, 10000, ...
• 100, 1000, 10000, ...
• 100, 1000, 10000, ...

Order of operations

First the order of operations that will result in a given value.
• $2 + 3 \times 4 = 14$ (not 20)
• $2 + 3 \times 4 = 14$ (not 20)
• $2 + 3 \times 4 = 14$ (not 20)

Algebraic notation

$a^2 + a^2 = 2a^2$
 $2a^2 + a^2 = 3a^2$
 $a^2 + a^2 = 2a^2$
 $a^2 + a^2 = 2a^2$
 $a^2 + a^2 = 2a^2$

Equations and inequalities

An equation is true for some particular value of x .
• $2x + 3 = 7$ is true for $x = 2$.
• You can identify a value for every value of x .
• $2x + 3 = 7$ is true for $x = 2$.

Order of operations

For any value a
 $a^2 + a^2 = 2a^2$
 $2a^2 + a^2 = 3a^2$
 $a^2 + a^2 = 2a^2$
 $a^2 + a^2 = 2a^2$

Algebraic notation

$2(3x^2) + 3(2x^2) = 12x^2$

Geometry & measures



Area and volume

Equation of straight line $y = mx + c$ or $y = mx$ as in the gradient, c is the y -intercept.
• Find the equation of the line that joins (0, 2) to (2, 1).
Find the gradient.
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
and the y -intercept, $c = 2$
Equation is $y = -\frac{1}{2}x + 2$

Pythagoras' Theorem

Pythagoras' Theorem: In a right-angled triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.
 $a^2 + b^2 = c^2$

Area and volume

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
Volume of prism = $\text{area of cross-section} \times \text{length}$

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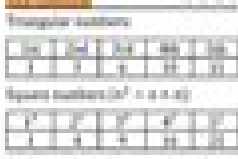
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1. Understanding the eBook Pixl Maths Gcse November 2014
 - The Rise of Digital Reading Pixl Maths Gcse November 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Maths Gcse November 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pixl Maths Gcse November 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Maths Gcse November 2014
 - Personalized Recommendations
 - Pixl Maths Gcse November 2014 User Reviews and Ratings
 - Pixl Maths Gcse November 2014 and Bestseller Lists
5. Accessing Pixl Maths Gcse November 2014 Free and Paid eBooks
 - Pixl Maths Gcse November 2014 Public Domain eBooks
 - Pixl Maths Gcse November 2014 eBook Subscription Services

- Pixl Maths Gcse November 2014 Budget-Friendly Options
- 6. Navigating Pixl Maths Gcse November 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Pixl Maths Gcse November 2014 Compatibility with Devices
 - Pixl Maths Gcse November 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Maths Gcse November 2014
 - Highlighting and Note-Taking Pixl Maths Gcse November 2014
 - Interactive Elements Pixl Maths Gcse November 2014
- 8. Staying Engaged with Pixl Maths Gcse November 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Maths Gcse November 2014
- 9. Balancing eBooks and Physical Books Pixl Maths Gcse November 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Maths Gcse November 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pixl Maths Gcse November 2014
 - Setting Reading Goals Pixl Maths Gcse November 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pixl Maths Gcse November 2014
 - Fact-Checking eBook Content of Pixl Maths Gcse November 2014
 - 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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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three normally closed contacts that represent the olr protection are connected in series with the motor coil and so can be treated as a single device in practice a motor starter often only has two external connection points and all internal

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web motor contactor or starter coils are typically designated by the letter m in ladder logic diagrams

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