

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 factors

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

Least common multiple

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

Units

Look for the biggest square number factor of the number.
• $100 = 10 \times 10 = 10^2$

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 centimetre = 10 millimetres

Time

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

Area

Calculate the number, then use a 'square digit' to round up or down. Round (up/down) to the nearest point.
• 102.1021 to 102
• 102.1021 to 102.1
• 102.1021 to 102.10

Significant figures

Significant figures: use the first non-zero digit.
• 102.1021 to 102
• 102.1021 to 102.1
• 102.1021 to 102.10
• 102.1021 to 102.102

Order of operations

Find the order of numbers that will result in a given value.
• $a = 5, b = 10$ (2 decimal places)
 $5.000 \times 2 = 10.000$
• $a = 5, b = 10$ (2 significant figures)
 $50.5 \times 2 = 101$

Algebraic notation

$a^2 + a + 1$
 $2a + a + 1 = 3a + 1$
 $a^2 + a + 1 = a^2 + a + 1$
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Equations and inequalities

An equation is true for some particular value of x .
• $2x + 1 = 5$ is true for $x = 2$
• $2x + 1 = 5$ is true for every value of x
• $2x + 1 = 5$ is true for every value of x

Order of operations

For any value a
 $a^2 + a^2 = 2a^2$
 $a^2 + a^2 = 2a^2$
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Algebraic notation

$4(3x)^2 = 36x^2 = 36x^2$

Graphical notation



Equation of a straight line

Equation of straight line $y = mx + c$ or $y = a + bx$ as in the graphs, x is the x -coordinate.
• Find the equation of the line that joins (0, 2) to (2, 1).
Find the gradient: $\frac{1-2}{2-0} = -\frac{1}{2}$
• $y = -\frac{1}{2}x + 2$

Pythagorean Theorem

Pythagorean 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 of a triangle

Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
• $\frac{1}{2} \times 10 \times 4 = 20$

Area of a trapezium

Area of a trapezium = $\frac{1}{2} \times (\text{top} + \text{bottom}) \times \text{height}$
• $\frac{1}{2} \times (10 + 4) \times 4 = 28$

Area of a circle

Area of a circle = πr^2
• $\pi \times 4^2 = 16\pi$

Volume of a cube

Volume of a cube = side^3
• $4^3 = 64$

Volume of a cylinder

Volume of a cylinder = $\pi r^2 \times \text{height}$
• $\pi \times 4^2 \times 4 = 64\pi$

Volume of a cone

Volume of a cone = $\frac{1}{3} \times \pi r^2 \times \text{height}$
• $\frac{1}{3} \times \pi \times 4^2 \times 4 = \frac{64\pi}{3}$

Right-angled triangles



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Algebra

Algebraic notation: Use letters to represent numbers.

Equation of a straight line

Equation of a straight line: $y = mx + c$ or $y = a + bx$

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Lauren Gardner



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