

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 number: 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
 $a^0 = 1$
 $a^{-1} = \frac{1}{a}$
 $a^{-2} = \frac{1}{a^2}$

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.
• $12x^2 = 4 \times 3 \times x^2 = 4x^2 \times 3x^2$

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 and perimeter

Calculate the perimeter, then use it to 'double' (if) to find area or length.
Perimeter (units) = the distance round
• Perimeter of a square = 4s
• Perimeter of a rectangle = 2(l + w)

Area

Area of a rectangle = length \times width
• Area of a square = side \times side
• Area of a triangle = $\frac{1}{2} \times$ base \times height

Volume

Volume of a cube = side \times side \times side
• Volume of a rectangular prism = length \times width \times height
• Volume of a cylinder = $\pi r^2 \times$ height

Area of a triangle

Area of a triangle = $\frac{1}{2} \times$ base \times height
• Area of a square = side \times side
• Area of a rectangle = length \times width

Area of a circle

Area of a circle = πr^2
• Area of a sector = $\frac{\theta}{360} \times \pi r^2$
• Area of a segment = Area of sector - Area of triangle

Area of a trapezium

Area of a trapezium = $\frac{1}{2} \times$ (sum of parallel sides) \times height
• Area of a parallelogram = base \times height
• Area of a rhombus = side \times height

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Geometry & measures



Area and perimeter

Equation of a straight line $y = mx + c$ or $y = ax + b$ as in the graphics, x is the x -coordinate
• Find the equation of the line that joins (1, 2) to (3, 4)
Find the gradient: $\frac{4-2}{3-1} = \frac{2}{2} = 1$
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Passes through (1, 2) so $2 = 1 + c$
Equation is $y = x + 1$

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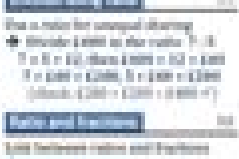
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