

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

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.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Working fractions 'top' the second fraction

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

Problems involving

Problems involving: $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$
• $\frac{1}{5} + \frac{1}{10} = \frac{1}{c}$
 $\frac{2}{10} + \frac{1}{10} = \frac{3}{10} = \frac{1}{c}$
 $c = \frac{10}{3}$

Least common multiple

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
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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 atom = 0.000 000 000 000 000 000 000 kg
1 kilogram = 1 000 grams
1 kilometre = 1 000 metres
1 metre = 100 centimetres = 1 000 millimetres
1 centimetre = 10 millimetres

1 day = 24 hours
1 hour = 60 minutes = 3 600 seconds
1 minute = 60 seconds

Area and perimeter

Calculate the number, then use a 'number line' to round up or down.
Round 10.5 up to the nearest point.
• 10.5, 11.5, 12.5, ...
10.5 is 0.5 above 10, so 11.

Area and perimeter

Find the area of a rectangle that will round to a given value.
• $100 \div 10 = 10$
• $100 \div 20 = 5$
• $100 \div 50 = 2$
• $100 \div 100 = 1$

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Standard graphs



Graphs

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

Graphs

Parallel lines: gradients are equal.
• $y = 2x + 3$ and $y = 2x + 5$ both have gradient 2 so are parallel.

Graphs

Find the equation for the line joining (0, 2) to (2, 1).
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Graphs

Right-angled triangles



Right-angled triangles

Pythagorean Theorem:
Sides of right-angled triangles.
No angles.
 $a^2 + b^2 = c^2$

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Right-angled triangles

Area and perimeter



Area and perimeter

Area of a rectangle:
Length \times Width
 $A = l \times w$

Area and perimeter

Area of a triangle:
Base \times Height $\div 2$
 $A = \frac{1}{2}bh$

Area and perimeter

Area of a circle:
Radius \times Circumference $\div 2$
 $A = \frac{1}{2}r \times 2\pi r = \pi r^2$

Area and perimeter

Area of a sector:
Radius \times Arc Length $\div 2$
 $A = \frac{1}{2}r \times s$

Area and perimeter

Area of a segment:
Area of sector - Area of triangle

Area and perimeter

Area of a composite shape:
Sum of areas of individual shapes

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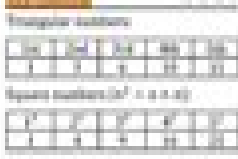
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