

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
 $a^0 = 1$

$$a^m \times a^n = a^{m+n}$$

$$a^m \div a^n = a^{m-n}$$

Ordering and 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: multiply numerators and denominators.

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

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 a number as a product of its prime factors.

$$12 = 2 \times 2 \times 3 = 2^2 \times 3$$

Use the prime factors to change decimals or fractions. Multiply where possible.

$$0.45 = \frac{45}{100} = \frac{9}{20}$$

Learn the most frequently used ones

1/2	1/3	2/3	1/4	3/4	1/5	2/5	3/5	4/5	1/6	5/6	1/10	9/10	1/12	11/12
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Algebra

Look for the biggest square number factor of the coefficient.
• $100 = 10 \times 10$ or $2 \times 2 \times 5 \times 5$

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
1 centimetre = 10 millimetres

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, ...
• 100, 10, 1, 0.1, 0.01, ...

100, 10, 1, 0.1, 0.01, ...
1000, 100, 10, 1, 0.1, 0.01, ...

100, 10, 1, 0.1, 0.01, ...
1000, 100, 10, 1, 0.1, 0.01, ...

100, 10, 1, 0.1, 0.01, ...
1000, 100, 10, 1, 0.1, 0.01, ...

Order fractions

Find the range of numbers that will result in a given value.

$$x = 5 \text{ (2 decimal places)}$$

$$4.995 \leq x < 5.005$$

$$x = 10 \text{ (2 significant figures)}$$

$$10 \leq x < 11$$

Note use of $\leq$ and $<$, and that the last significant figure is in 5.

Algebraic notation

$$a + b = c$$

$$a - b = c$$

$$a \times b = c$$

$$a \div b = c$$

$$a \pm b = c$$

$$a \times b = c$$

$$a \div b = c$$

$$a \pm b = c$$

$$a \times b = c$$

$$a \div b = c$$

$$a \pm b = c$$

$$a \times b = c$$

$$a \div b = c$$

Geometric graphs



Graphs

Equation of straight line $y = mx + c$ as in the graph, 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.
Hence the line is $y = -\frac{1}{2}x + 2$
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

$$y = ax + c$$

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Right-angled triangles



Pythagorean Theorem

Links of three sides.
No angles.
 $a^2 + b^2 = c^2$

Trigonometry



Area of triangle

$$\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$$

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Area and volume



Area of triangle

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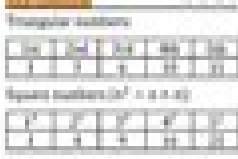
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C. Oliver



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