

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...

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

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

Working fractions 'top' the second fraction, then multiply...

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

Problems involving

Problems involving 'difference' or 'product'...

$$x + y = 10$$

$$x - y = 2$$

$$x = 4, y = 6$$

Algebra

Look for the biggest square number factor of the coefficient.
• $100 = 10 \times 10 \times 1 \times 1$

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 'borrow' digits to move up or down. Decimal places: use the decimal point.
• 100.1001 = 100.1001

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Order fractions

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

$$x = 5.55 \text{ (2 decimal places)}$$

$$x = 5.55 \text{ (2 significant figures)}$$

Note use of $\times 10^4$, and that the last significant figure is in 5.

Algebraic notation

$$a + b = c$$

$$a - b = c$$

$$a \times b = c$$

$$a \div b = c$$

$$a + b = c$$

$$a - b = c$$

$$a \times b = c$$

$$a \div b = c$$

Geometry & measures



Area and volume

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: $\frac{1-2}{2-0} = -\frac{1}{2}$
...and the y -intercept.
From the graph, $y = -\frac{1}{2}x + 2$
Equation is $y = -\frac{1}{2}x + 2$

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

Working with numbers

$$x + y = z$$

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Right-angled triangles



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.
• $a^2 + b^2 = c^2$

Special values of a , b , and c :
Learn for the sake of finding without a calculator...

a	b	c
3	4	5
5	12	13
7	24	25
9	40	41
11	60	61
13	84	85
15	112	113
17	144	145
19	180	181
21	220	221
23	264	265
25	312	313
27	360	361
29	408	409
31	460	461
33	516	517
35	572	573
37	630	631
39	688	689
41	748	749
43	808	809
45	870	871
47	932	933
49	996	997
51	1060	1061
53	1126	1127
55	1192	1193
57	1260	1261
59	1328	1329
61	1398	1399
63	1468	1469
65	1540	1541
67	1612	1613
69	1686	1687
71	1760	1761
73	1836	1837
75	1912	1913
77	1990	1991
79	2068	2069
81	2148	2149
83	2228	2229
85	2310	2311
87	2392	2393
89	2476	2477
91	2560	2561
93	2646	2647
95	2732	2733
97	2820	2821
99	2908	2909

The '3-4-5' or '5-12-13' rule to find a missing angle.

Area and volume

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
Volume of prism = $\text{length} \times \text{width} \times \text{height}$



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

Volume of prism = $\text{length} \times \text{width} \times \text{height}$

Volume of cylinder = $\pi r^2 \times \text{height}$

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

Volume of sphere = $\frac{4}{3} \pi r^3$

Volume of cube = side^3

Volume of rectangular prism = $\text{length} \times \text{width} \times \text{height}$

Volume of triangular prism = $\frac{1}{2} \times \text{base} \times \text{height} \times \text{length}$

Volume of square-based pyramid = $\frac{1}{3} \times \text{side}^2 \times \text{height}$

Volume of circular cone = $\frac{1}{3} \pi r^2 \times \text{height}$

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Algebra



Algebraic notation

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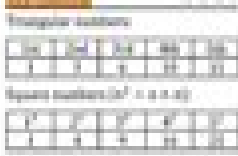
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