

Number 101

...or **NUMB**. For the correct order of operations, use **BODMAS** when using a calculator.

- Division
- Before (or After)
- Brackets and Multiplication
- Addition and Subtraction

Types of number 102

Integer: a 'whole' number
Factors: the divisors of an integer
• Factors of 12 are 1, 2, 3, 4, 6, 12
Multiple: a 'times table' for an integer (with infinite multiples)
• Multiples of 10 are 10, 20, 30, ...
Prime number: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

Order of operations 103

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

Area and Volume 104

Write a number as a product of its prime factors, and follow the repeated factors.
• $120 = 2 \times 2 \times 2 \times 3 \times 5$

Formulae and Equations 105, 107

Special numbers for any value x
 $x^2 = x \times x$
 $x^3 = x \times x \times x$

Ordering and Inequality 106

Adding or subtracting fractions, use a common denominator.

Multiplying Fractions 107

Multiplying fractions: multiply numerators and denominators.

Working fractions 108

Working fractions: 'flip' the second fraction, then multiply.

Ordering and Inequality 109

Ordering in ascending or descending order.

Working fractions 110

The area under a graph directly or indirectly: multiply, where possible.

Area and Volume 111

Use the most frequently used ones.

Area and Volume 112

Use the most frequently used ones.

Area and Volume 113

Use the most frequently used ones.

Algebra 102

Look for the biggest square number factor of the constant.
• $x^2 + 12x + 36 = (x + 6)^2$

Algebraic Equations 103

Standard form: numbers are in the form $a \times 10^n$ where $1 \leq a < 10$ and n is an integer.

Algebraic Equations 104

1 square = 10000 kilograms
1 kilogram = 1000 grams
1 millimetre = 1000 micrometres
1 metre = 100 centimetres
1000 millimetres
1 centimetre = 10 millimetres

Algebraic Equations 105

1 kg = 1000 grams
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Algebraic Equations 106

Transfer the number that you're 'dividing' by, to the other side of the bracket. Do this for all terms. Do not forget to use the bracketed part.

Algebraic Equations 107

Significant figures: use the first two non-zero digits.
• Add 1000 to 100
10 1000 = 1000 + 100
10000 = 1000 + 1000
10000 = 1000 + 1000 + 1000 + 1000

Area and Volume 108

Find the range of numbers that will round to a given value.
• $x = 5.53$ (2 decimal places)
 $5.525 \leq x < 5.535$
• $x = 44.2$ (1 significant figure)
 $44.5 \leq x < 44.55$

Area and Volume 109

Note you're $x \pm 0.5$, and that the last significant figure is $x \pm 0.5$.

Algebraic Equations 110

$2x + 3 = 7$
 $2x = 7 - 3$
 $2x = 4$
 $x = 2$

Algebraic Equations 111

An equation to find the same particular value of x
• $2x + 3 = 7$ because $2 \times 2 + 3 = 7$
- you can substitute x for any value of x
• $3x + 2 = 7$ because $3 \times 2 + 2 = 7$
(note the use of the equal sign)

Algebraic Equations 112

For any value x
 $x^2 + x^2 = 2x^2$
 $x^2 + x^2 + x^2 = 3x^2$
 $x^2 + x^2 + x^2 + x^2 = 4x^2$
 $x^2 + x^2 + x^2 + x^2 + x^2 = 5x^2$

Algebraic Equations 113

Use the most frequently used ones.

Geometry & measures 102



Area and Volume 103

Equation of straight line $y = mx + c$ as to the gradient, m , is the **steepness**.
• Find the equation of the line that joins (0, 2) to (2, 1).
Find its gradient.
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
and its y-intercept.
From the line $y = mx + c$, $2 = -\frac{1}{2} \times 0 + c$
Therefore $y = -\frac{1}{2}x + 2$

Area and Volume 104

Parallel lines: gradients are equal.
• $y = 2x + 1$ and $y = 2x + 3$ both have gradient 2 so are parallel.

Area and Volume 105

$3(x + 2) + 4y = 10$
 $3x + 6 + 4y = 10$
 $3x + 4y = 10 - 6$
 $3x + 4y = 4$
 $3x = 4 - 4y$
 $x = \frac{4 - 4y}{3}$
 $x = \frac{4}{3} - \frac{4}{3}y$

Area and Volume 106

Reverse of expanding a bracket: putting an expanding into brackets.
Algebraic Equations 107
Take a square by factoring.
• Take $x^2 + 5x + 6 = 0$
Factorise brackets (taking care with any negative numbers).
 $(x + 2)(x + 3) = 0$
- then either $x + 2 = 0$ or $x + 3 = 0$
or that $x = -2$ or $x = -3$

Area and Volume 108

Algebraic Equations 109
 $x^2 - 2^2 = (x + 2)(x - 2)$
 $x^2 - 25 = (x + 5)(x - 5)$

Area and Volume 110

• Take $\frac{3x + 24}{3x + 24} = 1$
Multiply by each side to get x
 $3x + 24 = 3x + 24$
 $3x - 3x = 24 - 24$
Add or subtract to cancel.
 $0x = 0$
Finally, substitute and solve.
 $3 \times 2 + 24 = 30$
 $3 \times 3 + 24 = 33$

Area and Volume 111

The subject of a formula is the letter on the axis. The ratio that 'takes' the formula to change its subject.
• Make x the subject of $3x + 2 = 7$
 $3x = 7 - 2$
Now, subtract by three both sides.
 $x = \frac{7 - 2}{3}$
- then divide both sides by 3
 $x = \frac{5}{3}$

Area and Volume 112

Use the most frequently used ones.

Area and Volume 103

Pythagoras Theorem
Leds of three sides.
By angle, $a^2 + b^2 = c^2$

Area and Volume 104

Pythagoras
Leds two sides and one right angle (Leds) Pyth.

Area and Volume 105

$\sin^2 \theta + \cos^2 \theta = 1$
 $\cos^2 \theta = 1 - \sin^2 \theta$
 $\cos \theta = \sqrt{1 - \sin^2 \theta}$

Area and Volume 106

The 'SOH' or 'CAH' way to find a missing angle.

Area and Volume 107

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

Area and Volume 108

Concentration of cubes = $\frac{1}{3} \times \pi \times r^2 \times h$
Area of circle = $\pi \times r^2$

Area and Volume 109

Area of sector = $\frac{\theta}{360} \times \pi \times r^2$
Volume of cylinder = $\pi r^2 \times \text{height}$

Area and Volume 110

Reflection
• Line of reflection
• Centre of rotation
• Angle of rotation
• Trace

Area and Volume 111

Two angles in a straight line always sum to 180°.

Area and Volume 112

Use the most frequently used ones.

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Probability 104, 105

Triangle numbers

1	3	6	10	15	21
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Square numbers ($n^2 = n \times n$)

1	4	9	16	25	36
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Cube numbers ($n^3 = n \times n \times n$)

1	8	27	64	125	216
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All terms of an arithmetic (linear) sequence are $a + d$

• Use sums of 1, 4, 9, 16, 25, ... to find always increases by 1
Next term is $1 + 1 = 2$
Sequence increases multiply with square a constant rate
• 1, 4, 9, 16, 25, ... (times by 2)
Elementary sequence: take the next term by adding the previous term.
• 1, 1, 2, 3, 5, 8, 13, ...

Probability 105, 106

$P = \frac{\text{Number of favourable outcomes}}{\text{Total number of possible outcomes}}$
 $P = 0$ impossible
 $0 < P < 1$ unlikely
 $P = 0.5$ even
 $0.5 < P < 1$ likely
 $P = 1$ certain

Probability 106, 107

Multiply for independent events
• 25 from 50 and 10 from 20
 $\frac{25}{50} \times \frac{10}{20} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Probability 107, 108

Add for mutually exclusive events
• 25 from 50 and 10 from 20
 $\frac{25}{50} + \frac{10}{20} = \frac{1}{2} + \frac{1}{2} = 1$

Probability 108, 109

Apply these rules to tree diagrams.

Probability 109



Probability 110

Two angles in a straight line always sum to 180°.

Probability 111

Use the most frequently used ones.

Algebraic Equations 103

The n th term for an arithmetic sequence
• Divide 1000 by the ratio 7 - 1
 $7 \times 2 = 14$, then $1000 \div 14 = 71$
 $71 \times 6 = 426$, $5 \times 426 = 2130$
(Check: $2130 + 426 = 2556$)

Algebraic Equations 104

Let between rates and fractions
• They go into the ratio 2 : 1
 $\frac{2}{1} = \frac{2}{1} \times \frac{1}{2} = 1$

Algebraic Equations 105

1 percentage of $x = \frac{1}{100} \times x$
• Increase 100 by 10%
 $\frac{10}{100} \times 100 = 10$
 $100 + 10 = 110$
20% percentage of $x = \frac{20}{100} \times x$

Algebraic Equations 106

10% percentage of $x = \frac{10}{100} \times x$
• Increase 100 by 10%
 $\frac{10}{100} \times 100 = 10$
 $100 + 10 = 110$
20% percentage of $x = \frac{20}{100} \times x$
• The percentage of x when increase 100 by 10% is 110
Find the percentage increase.
 $\frac{110 - 100}{100} \times 100 = 10\%$

Algebraic Equations 107

Use the most frequently used ones.

Algebraic Equations 108

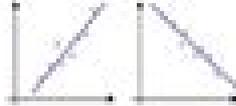
Speed = $\frac{\text{Distance}}{\text{Time}}$
• A car travels 60 miles in 1 hour 30 minutes. Find the average speed.
60 miles = 60 hours = 60 mph

Algebraic Equations 109

Make sure frequently occurring numbers are in the correct order. Then choose the suitable one.
Note: 100 is the number of days in a year.

Algebraic Equations 110

Positive constants Negative constants



Algebraic Equations 111

Use the most frequently used ones.

Algebraic Equations 112

Use the most frequently used ones.

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Clemens Wendtner



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