

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

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 factors

Factorise an integer as a product of its prime factors.
• $12 = 2 \times 2 \times 3$

Least common multiple

Least common multiple (LCM) of 6 and 9 is 18.
• $6 \times 3 = 18$
• $9 \times 2 = 18$

Algebra

Look for the biggest square number factor of the expression.
• $100 = 10 \times 10 = 10^2$

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 metre = 1000 millimetres
1 kilometre = 1000 metres
1 metre = 100 centimetres
1000 millimetres = 1000 millimetres
1 centimetre = 10 millimetres

Units

1 day = 24 hours
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Ordering

Transfer the number, then add a 'bracket sign' to round up or down.
Round 12.345 up to the nearest point.
• 12.345 rounds up to 12.4

Significant figures

Significant figures: use the first non-zero digit.
• 12.3456789 to 3 sig. figs.
• 12.3

Ordering

Find the range of numbers that will round to a given value.
• $x = 5.55$ (2 decimal places)
 $5.55 \leq x < 5.56$

Ordering

Note use of \leq and $<$, and that the last significant figure of x is 5.
• $5.55 \leq x < 5.56$

Algebraic notation

$a^2 + a + 1$
 $2a + a + 1 = 3a + 1$
 $a^2 + a + 1 = a^2 + a + 1$
 $a^2 + a + 1 = a^2 + a + 1$
 $a^2 + a + 1 = a^2 + a + 1$

Algebraic notation

It is important to use the same particular value of a .
• $2a + 1 = 3$ when $a = 1$
• $2a + 1 = 3$ when $a = 1$

Algebraic notation

For any value of a ,
 $a^2 + a^2 = 2a^2$
 $a^2 + a^2 = 2a^2$
 $a^2 + a^2 = 2a^2$

Algebraic notation

The subject of a formula is the letter on the left, the value that 'balances' the formula to change the subject.
• Make x the subject of $2x + 3 = 7$
 $2x + 3 = 7$
 $2x = 7 - 3$
 $2x = 4$
 $x = \frac{4}{2}$
 $x = 2$

Algebraic notation

• $\frac{1}{100} \times 100 = 1$

Geometry & measures

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.
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
• $c = 2$ (y-intercept)
• Equation is $y = -\frac{1}{2}x + 2$

Pythagoras' Theorem

Pythagoras' Theorem: In a right-angled triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.
 $a^2 + b^2 = c^2$

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Mike Jess



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