

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 and time

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
 $a^0 = 1$

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

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

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.

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

Percentages and ratios

Percent is 'per cent' = denominator 100

$$\frac{1}{2} \times 100 = 50\%$$

Use the given values to change decimals or fractions. Multiply where possible.

$$0.45 \times \frac{100}{1} = 45\%$$

Learn the most frequently used ones

10%	20%	30%	40%	50%
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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

Geometry

Translate the number line and in 'number line' to read up or down. Decimal points: use the decimal point.
• 100, 1000, 10000, ...

100, 1000, 10000, ...

100, 1000, 10000, ...

100, 1000, 10000, ...

Order fractions

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

• $x = 5$ (2 decimal places)
 $5.000 \leq x \leq 5.000$

• $x = 10$ (2 significant figures)
 $10.5 \leq x \leq 10.5$

Note use of \leq and \geq , and that the last significant figure is 0.5

Algebraic notation

$$a^2 + a + 1$$

$$b^2 + a + 1$$

$$a^2 + a + 1$$

$$a^2 + a + 1$$

$$a^2 + a + 1$$

Equations and inequalities

An equation is true for some particular value of x

• $2x + 1 = 5$ is true for $x = 2$

• An inequality is true for many values of x

• $x + 1 < 5$ is true for $x < 4$

Area of a circle

For any radius r

$$A = \pi r^2$$

$$A = \pi r^2$$

Geometric shapes



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, 1.5)

Find the gradient.

...and the y -intercept.

Prove through (0, 2) by $y = 2 + 0$

Equation is $y = 2 + 0$

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.

• $a^2 + b^2 = c^2$

Special values of a , b , c are 3, 4, 5

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Right-angled triangles



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Algebra

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Algebra

x is a percentage of y . $\therefore \frac{x}{y} = \frac{10}{100}$.

The population of a town increases from 100 to 110. Find the percentage increase.

$\frac{110 - 100}{100} \times 100 = \frac{10}{100} \times 100 = 10\%$.

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Jiyuan Zhang



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