

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 value 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.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Working fractions 'top' the second fraction

Working fractions 'top' the second fraction, then multiply.
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

Problems involving

Problems involving: $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$
• $\frac{1}{5} + \frac{1}{10} = \frac{1}{c}$
 $\frac{2}{10} + \frac{1}{10} = \frac{3}{10} = \frac{1}{c}$
 $c = \frac{10}{3}$

Least common multiple

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
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Algebra

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

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 = 1000 millimetres
1 centimetre = 10 millimetres

Time

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

Area

Calculate the number, then use a 'square digit' to round up or down. Round (up) means use the decimal point.
• 102.1021 = 102.1021

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Geometry & measures



Area

Equation of straight line $y = mx + c$ or $y = mx + c$ as in the gradient, 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: $c = 2$
Equation is $y = -\frac{1}{2}x + 2$

Area

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

Area

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
• $\frac{1}{2} \times 10 \times 4 = 20$
Area of rectangle = $\text{length} \times \text{width}$
• $10 \times 4 = 40$

Area

Area of trapezium = $\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}$
• $\frac{1}{2} \times (10 + 4) \times 4 = 28$

Area

Area of circle = πr^2
• $\pi \times 4^2 = 16\pi$

Area

Area of cylinder = $2\pi r^2 h + \pi r^2 l$
• $2\pi \times 4^2 \times 5 + \pi \times 4^2 \times 10 = 160\pi + 160\pi = 320\pi$

Area

Area of sphere = $4\pi r^2$
• $4\pi \times 4^2 = 64\pi$

Area

Area of cone = $\pi r^2 + \pi r l$
• $\pi \times 4^2 + \pi \times 4 \times 5 = 16\pi + 20\pi = 36\pi$

Area

Area of pyramid = $\frac{1}{2} \times \text{base perimeter} \times \text{height}$
• $\frac{1}{2} \times 4 \times 4 \times 5 = 40$

Area

Area of frustum = $\pi (R^2 + r^2 + Rr)h$
• $\pi (16 + 4 + 16) \times 5 = 160\pi$

Geometry & measures



Area

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.
• $a^2 + b^2 = c^2$

Area

Special values of sin, cos, tan: Learn for the day to find without a calculator.

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11 ci previous question next question

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determine based on electronegativity and symmetry if the following molecules are polar or nonpolar hcn h c n cf₄ c f 4 cocl₂
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