

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

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 factorisation

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

Least common multiple

12	18	24	36	48	60
12	18	24	36	48	60

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

Time

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

Area

Calculate the number, then use a 'double digit' to record up or down.
Decimal places: use the decimal point.
• 100.1001 = 100.1001

Significant figures

Significant figures: use the first non-zero digit.
• 100.1001 to 3sf: 100
• 100.1001 to 4sf: 100.1
• 100.1001 to 5sf: 100.100
• 100.1001 to 6sf: 100.1001

Order of operations

Find the order of numbers that will result in a given value.
• $a = 5, b = 10$ (2 decimal places)
 $5.000 \times 2 = 10.000$
• $a = 5, b = 10$ (2 significant figures)
 $5.0 \times 2 = 10.0$

Area of a rectangle

Note use of a and b , and that the two equivalent forms of $a \times b$ are:
 $a \times b = b \times a$

Area of a triangle

Area of a triangle: $\frac{1}{2} \times \text{base} \times \text{height}$
• $\frac{1}{2} \times 10 \times 5 = 25$

Area of a circle

Area of a circle: πr^2
• $\pi \times 5^2 = 25\pi$

Area of a square

Area of a square: s^2
• $s^2 = 5^2 = 25$

Area of a parallelogram

Area of a parallelogram: $\text{base} \times \text{height}$
• $10 \times 5 = 50$

Geometry & measures



Equation of a straight line

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: $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
Find the y -intercept: $c = 2$
Equation is $y = -\frac{1}{2}x + 2$

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.
• $a^2 + b^2 = c^2$

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Area of a parallelogram

Area of a parallelogram: $\text{base} \times \text{height}$
• $10 \times 5 = 50$

Area of a trapezium

Area of a trapezium: $\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}$
• $\frac{1}{2} \times (10 + 5) \times 5 = 37.5$

Area of a rectangle

Area of a rectangle: $\text{length} \times \text{width}$
• $10 \times 5 = 50$

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Michael Rajnik



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