

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

Ordering with decimals

Ordering in ascending or descending order.
• $0.45 < 0.5 < 0.55$

Ordering with fractions

Ordering in ascending or descending order.
• $\frac{1}{2} < \frac{2}{3} < \frac{3}{4}$

Ordering with percentages

Ordering in ascending or descending order.
• $45\% < 50\% < 55\%$

Ordering with ratios

Ordering in ascending or descending order.
• $1:2 < 2:3 < 3:4$

Ordering with fractions

Ordering in ascending or descending order.
• $\frac{1}{2} < \frac{2}{3} < \frac{3}{4}$

Algebra

Look for the biggest square number factor of the coefficient.
• $100 = 10 \times 10 \times 1 \times 1$

Standard form

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

Standard form

1 square = 10000 kilograms
1 kilogram = 1000 grams
1 kilometre = 1000 metres
1 metre = 100 centimetres
1 centimetre = 10 millimetres

Standard form

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

Standard form

Transfer the number, then use a 'decimal digit' to record any shifts.
Decimal places: use the decimal point.

Standard form

1000 = 10^3
100 = 10^2
10 = 10^1
1 = 10^0

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Geometry & measures



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 its gradient.
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$
and its y -intercept, $c = 2$
Hence the line is $y = -\frac{1}{2}x + 2$
Equation is $y = -\frac{1}{2}x + 2$

Geometry & measures

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

Geometry & measures

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
• $\frac{1}{2} \times 4 \times 3 = 6$
Area is 6

Geometry & measures

Area of rectangle = $\text{length} \times \text{width}$
• $4 \times 3 = 12$
Area is 12

Geometry & measures

Area of circle = πr^2
• $\pi \times 3^2 = 9\pi$
Area is 9π

Geometry & measures

Area of trapezium = $\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}$
• $\frac{1}{2} \times (4 + 6) \times 3 = 15$
Area is 15

Geometry & measures

Area of square = side^2
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Geometry & measures

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.
• $a^2 + b^2 = c^2$
The longest side of any right-angled triangle is the hypotenuse. Check that your answer is consistent with this.

Geometry & measures

Special values of sin, cos, tan: Learn (or be able to find without a calculator).

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IM Harris



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