GCSE Mathematics Foundation Tier

Number · Algebra · Ratio, proportion and rates of change · Geometry & measures · Probability · Statistics

BIDMAS
...or BODMAS. Use the correct order of operations; take care when using a calculator.
- Brackets
- Indices (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 (will continue indefinitely)
Multiples of 12 are 12, 24, 36, ...
Prime number: an integer which has exactly two factors (1 and the number itself). Note: 1 is not a prime number.

HCF, LCM
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

Prime factors
Write a number as a product of its prime factors; use indices for repeated factors.

Powers and roots
Special values for any value a:
$a^0 = 1$
$a^{-1} = \frac{1}{a}$

Calculating with fractions
Adding or subtracting fractions: use a common denominator...
Multiplying fractions: multiply numerators and denominators...
Dividing fractions: "flip" the second fraction, then multiply...

Fractions, decimals
Fraction is numerator ÷ denominator
Use place values to change decimals to fractions. Simplify where possible.
Learn the most frequently used ones:

Surds
Look for the biggest square number factor of the number.

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

Standard units
1 tonne = 1000 kilograms
1 kilogram = 1000 grams

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

Rounding
Truncate the number, then use a "decider digit" to round up or down.
Decimal places: use the decimal point.
Significant figures: use the first non-zero digit.

Error intervals
Find the range of numbers that will round to a given value.
Note: use of ≤ and <, and that the last significant figure of each is 5.

Algebraic notation
$ab = a \times b$
$3y = y + y + y$
$a^2 = a \times a$
$a^3 = a \times a \times a$
$\frac{a}{b} = a \div b$

Equations and identities
An equation is true for some particular value of x...
...but an identity is true for every value of x.

Laws of indices
For any value a:
$a^x \times a^y = a^{x+y}$
$\frac{a^x}{a^y} = a^{x-y}$
$(a^x)^y = a^{xy}$

Standard graphs


y = mx + c
Equation of straight line $y = mx + c$: m is the gradient, c is the y-intercept.
Parallel lines: gradients are equal.

Expanding brackets
Reverse of expanding is factorising: putting an expression into brackets.

Quadratics
Solve a quadratic by factorising.
Put into brackets (taking care with any negative numbers)...

Difference of two squares
$x^2 - y^2 = (x + y)(x - y)$

Simultaneous equations
Multiply to match a term in x or y...
Add or subtract to cancel...
Finally, substitute and solve...

Rearrange a formula
The subject of a formula is the term on its own. Use rules that "balance" the formula to change its subject.

Right angled triangles
Pythagoras Theorem.
Links all three sides.
No angles.
$a^2 + b^2 = c^2$

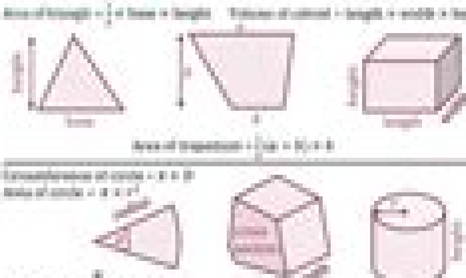
The longest side of any right angled triangle is the hypotenuse; check that your answer is consistent with this.

Trigonometry.
Links two sides and one angle.
SOH CAH TOA

Use "2ndF" or "SHIFT" key to find a missing angle.

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

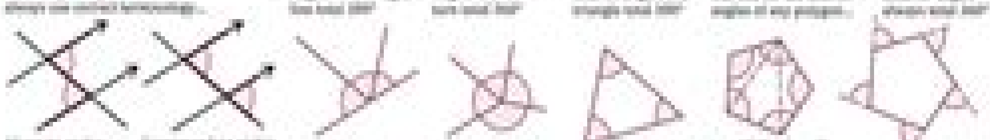
Area and volumes
Area of triangle $= \frac{1}{2} \times$ base $\times$ height
Volume of cuboid = length × width × height



Circumference of circle $= \pi \times D$
Area of circle $= \pi \times r^2$
Volume of cylinder $= \pi r^2 \times$ height
Volume of prism = area of cross section × length

Transformations
Reflection
- Line of reflection
Translation
- Vector
Rotation
- Centre of rotation
- Angle of rotation
- Clockwise or anticlockwise
Enlargement
- Centre of enlargement
- Scale factor

Angle facts
Exact angles in parallel lines: always use correct terminology...
Angles on a straight line total 180°
Angles in a full turn total 360°
Interior angles in a triangle total 180°
Use this for the interior angles of any polygon...
Exterior angles always total 360°



Alternate angles · Corresponding angles

Sequences
Triangular numbers
Square numbers
Cube numbers
nth term of an arithmetic (linear) sequence is $an + d$
Geometric sequence: multiply each term by a constant ratio
Fibonacci sequence: make the next term by adding the previous two...

Probability
$p = 0$ impossible
$p < 0.5$ unlikely
$p = 0.5$ evens
$p > 0.5$ likely
$p = 1$ certain

Probability rules
Multiply for independent events
Add for mutually exclusive events
Apply these rules to tree diagrams

Parts of a circle


Dividing using ratio
Use a ratio for unequal sharing.

Ratio and fractions
Link between ratios and fractions

Percentages

Speed, distance, time
Speed $= \frac{\text{distance}}{\text{time}}$

Averages
Mode: most frequently occurring
Median: put the data in numerical order, then choose the middle one
Mean $= \frac{\text{total of items of data}}{\text{number of items of data}}$

Correlation
Positive correlation · Negative correlation

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Roman Wölfel

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