# GCSE Mathematics Foundation Tier

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

[illegible]

## BIDMAS

...or BODMAS. Use the correct order of operations [illegible]
- 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" [illegible]
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 [illegible]

## Powers and roots

Special indices for any value a
$a^0 = 1$

## 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:

| | | | | |
|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

## 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 [illegible]
Significant figures: use the first non-zero digit.

## Error intervals

Find the range of numbers that will round to a given value [illegible]

## Algebraic notation

## 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

## Standard graphs

## y = mx + c

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

## Expanding brackets

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

## Quadratics

Solve a quadratic by factorising.

## Difference of two squares

$a^2 - b^2 = (a + b)(a - b)$

## 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.

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

Trigonometry.
SOH | CAH | TOA

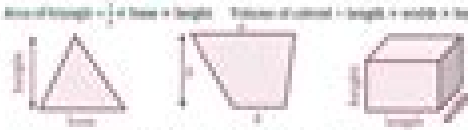
Use "2nd F" or "SHIFT" key to find a missing angle.

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

| θ° | sinθ° | cosθ° | tanθ° |
|---|---|---|---|
| 0 | 0 | 1 | [illegible] |
| 30 | [illegible] | [illegible] | [illegible] |
| 45 | [illegible] | [illegible] | 1 |
| 60 | [illegible] | [illegible] | $\sqrt{3}$ |
| 90 | 1 | 0 | |

## Areas and volumes

Area of triangle = ½ × base × height    Volume of cuboid = length × width × height



Area of trapezium = ½(a + b) × h

Circumference of circle = π × D
Area of circle = π × r²

Volume of cylinder = πr² × height
Volume of prism = area of cross section × length

## Transformations

Reflection
- Line of reflection

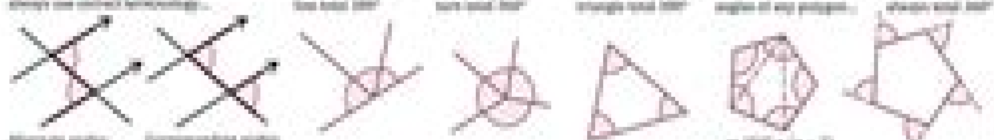
Translation
- Vector

Rotation
- Centre of rotation
- Angle of rotation
- Clockwise or anticlockwise

Enlargement
- Centre of enlargement
- Scale factor [illegible]

## 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

...or 180° × (n − 2)

## Sequences

Triangular numbers

Square numbers ($n^2 = n \times n$)

Cube numbers ($n^3 = n \times n \times n$)

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
0 < p < 0.5    unlikely
p = 0.5    evens
0.5 < p < 1    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

## Division using ratio

Use a ratio for unequal sharing

## Ratio and fractions

Link between ratios and fractions

## Percentages

Learn the most frequently used ones:

## Speed, distance, time

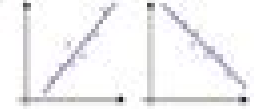
Speed = distance / time

## Averages

Mode: most frequently occurring
Median: put the data in numerical order, then choose the middle one
Mean = total of items of data / number of items of data

## Correlation

Positive correlation    Negative correlation



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