GCSE Mathematics Foundation Tier

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

BIDMAS

- Brackets
- Indices (or powers)
- Division and Multiplication
- Addition and Subtraction

Types of number

Integer: a "whole" number

HCF/LCM

Highest Common Factor (HCF)

Lowest Common Multiple (LCM)

Prime factors

Powers and roots

Calculating with fractions

Fractions, decimals

Surds

Standard form

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

Error intervals

Algebraic notation

Equations and identities

Laws of indices

Standard graphs

$y = x^2$ $y = x^3$ $y = \frac{1}{x}$

y = mx + c

Expanding brackets

Quadratics

Difference of two squares

Simultaneous equations

Rearrange a formula

Right-angled triangles

Pythagoras' Theorem.

$a^2 + b^2 = c^2$

Trigonometry.

SOH | CAH | TOA

θ	$\sin\theta$	$\cos\theta$	$\tan\theta$
0	0	1	0
30	[illegible]	[illegible]	[illegible]
45	[illegible]	[illegible]	1
60	[illegible]	[illegible]	$\sqrt{3}$
90	1	0	

Areas and volumes

Transformations

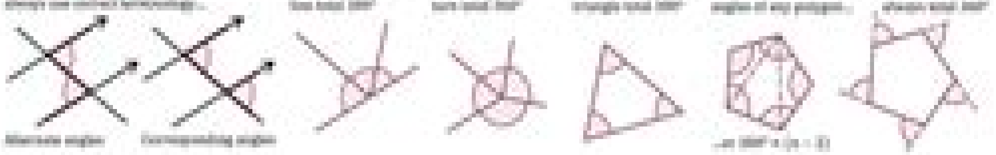
Reflection
- Line of reflection

Translation
- Vector

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

Enlargement
- Centre of enlargement
- Scale factor

Angle facts



Alternate angles · Corresponding angles

Sequences

Triangular numbers

Square numbers

Cube numbers

Probability

Probability rules

Parts of a circle

Division using ratio

Ratio and fractions

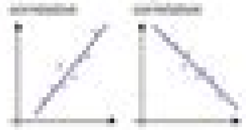
Percentages

Speed, distance, time

Averages

Correlation

Positive correlation · Negative correlation



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