



GCSE Foundation Maths Formulae: Look, Say, Cover, Write, Check

Area, Volume and Circles

Name of Formula	Look	Say	Cover	Write	Check	Write	Check
Area of a Rectangle	length \times width						
Area of a Triangle	$\frac{1}{2} \times$ base \times height						
Area of a Parallelogram	base \times height						
Area of a Trapezium	$\frac{1}{2} \times (a + b) \times$ height						
Area of a Circle	$\pi \times (\text{radius})^2$ or πr^2						
Circumference of a Circle	$\pi \times$ diameter or πd						
Volume of a Cuboid	length \times width \times height						
Volume of a Prism	area of cross section \times length						
Volume of a Cylinder	$\pi \times (\text{radius})^2 \times$ height or $\pi r^2 h$						



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Compound Measures

Name of Formula	Look	Say	Cover	Write	Check	Write	Check
Speed	distance \div time						
Distance	speed \times time						
Time	distance \div speed						
Density	mass \div volume						
Mass	density \times volume						
Volume	mass \div density						
Pressure	force \div area						
Force	pressure \times area						
Area	force \div pressure						



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Trigonometry, Trigonometric Functions and Pythagoras' Theorem

Name of Formula	Look	Say	Cover	Write	Check	Write	Check
$\sin(0^\circ)$	0						
$\sin(30^\circ)$	$\frac{1}{2}$						
$\sin(45^\circ)$	$\frac{1}{\sqrt{2}}$						
$\sin(60^\circ)$	$\frac{\sqrt{3}}{2}$						
$\sin(90^\circ)$	1						
$\cos(0^\circ)$	1						
$\cos(30^\circ)$	$\frac{\sqrt{3}}{2}$						
$\cos(45^\circ)$	$\frac{1}{\sqrt{2}}$						
$\cos(60^\circ)$	$\frac{1}{2}$						



$\cos(90^\circ)$	0					
$\tan(0^\circ)$	0					
$\tan(30^\circ)$	$\frac{1}{\sqrt{3}}$					
$\tan(45^\circ)$	1					
$\tan(60^\circ)$	$\sqrt{3}$					
$\tan(90^\circ)$	Not defined					
$\sin A$	opposite \div hypotenuse					
$\cos A$	adjacent \div hypotenuse					
$\tan A$	opposite \div adjacent					
Pythagoras' Theorem	$a^2 + b^2 = c^2$					