Name	Formula	Explanation
Area of a rectangle	$A = l \times w$ or $A = lw$	where l is the length and w is the width
Area of a triangle	$A = \frac{1}{2}b \times h$ or $A = \frac{1}{2}bh$	where b is the base and h is the perpendicular height
Area of a parallelogram	$A = b \times h$ or $A = bh$	where b is the base and h is the perpendicular height
Area of a trapezium	$A = \frac{a+b}{2} \times h$ or $A = \frac{(a+b)h}{2}$	where a and b are the parallel sides and h is the perpendicular height
Circumference of a circle	$C = 2\pi r$ or $C = \pi D$	where r is the radius and D is the diameter
Area of a circle	$A = \pi r^2$	where r is the radius
Volume of a prism	$V = \text{area of cross section} \times h$	where h is the height
Volume of a cylinder	$V = \pi r^2 h$	where r is the radius and h is the height
*Volume of a pyramid	$V = \frac{1}{3}\,\text{area of base} \times h$	where h is the perpendicular height
Pythagoras' theorem	$a^2 + b^2 = c^2$	where a, b and c are side lengths of a right angled triangle, and c is the hypotenuse
Trigonometric ratios (SOH CAH TOA)	$\sin x = \frac{opp}{hyp}$ $\cos x = \frac{adj}{hyp}$ $\tan x = \frac{opp}{adj}$	
*Sine rule	$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$	where $A\ B\ C$ are angles and $a\ b\ c$ are sides of a triangle
*Cosine rule	$a^2 = b^2 + c^2 - 2bc\cos A$	
*Area of a triangle (trigonometry)	$A = \frac{1}{2}ab\sin C$	
*The quadratic formula (solutions to a quadratic equation)	$x = \frac{-b \pm \sqrt{(b^2 - 4ac)}}{2a}$	where a, b and c are the coefficients in the quadratic equation $ax^2 + bx + c = 0$
Compound interest	$Total = P(1 + \frac{r}{100})^n$	where P is the principal amount, r is the interest rate over a given period and n is number of times that the interest is compounded
Probability "and" rule	$P(A\ or\ B) = P(A) + P(B) - P(A\ and\ B)$	where $P(A)$ is the probability of outcome A and $P(B)$ is the probability of outcome B
Probability "or" rule	$P(A\ and\ B) = P(A\ given\ B)P(B)$	

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