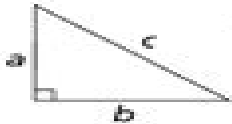


High School AIMS Reference Sheet

Formulas for Area		Key	
Triangle	$A = \frac{1}{2}bh$	b = base	d = diameter
Rectangle	$A = lw$	h = height	r = radius
Trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$	l = length	ℓ = slant height
Parallelogram	$A = bh$	w = width	B = area of base
Circle	$A = \pi r^2$		P = perimeter of base
Use 3.14 or $\frac{22}{7}$ for π .			

Formulas for Volume and Area of Solids		
Solid	Volume	Total Surface Area
Right Circular Cone	$V = \frac{1}{3}\pi r^2 h$	$T = \frac{1}{2}(2\pi r)\ell + \pi r^2 = \pi r\ell + \pi r^2$
Pyramid	$V = \frac{1}{3}Bh$	$T = B + \frac{1}{2}P\ell$
Sphere	$V = \frac{4}{3}\pi r^3$	$T = 4\pi r^2$
Right Circular Cylinder	$V = \pi r^2 h$	$T = 2\pi rh + 2\pi r^2$
Right Prism	$V = Bh$	$T = 2B + Ph$

Linear Equation Forms	Coordinate Geometry
<u>Point-Slope Form:</u> $y - y_1 = m(x - x_1)$	Given: Points $A(x_1, y_1)$, $B(x_2, y_2)$ <u>Distance between two points:</u> $AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
<u>Standard or General Form:</u> $Ax + By = C$	<u>Midpoint between two points:</u> Midpoint of $\overline{AB} = \left(\frac{x_2 + x_1}{2}, \frac{y_2 + y_1}{2} \right)$
<u>Slope-Intercept Form:</u> $y = mx + b$	<u>Slope of line through two points:</u> $m = \frac{y_2 - y_1}{x_2 - x_1}$
Pythagorean Theorem	Quadratic Formula
 $c^2 = a^2 + b^2$	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

School Maths Formula Sheet

Fudeko Reekie

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