Formula Sheet

Grade 9 Academic

C_{Δ}	llin
CO	ши

Geometric Shape	Perimeter	Area
Rectangle l	P = l + l + w + w or	A = lw
+ w	P = 2(l + w)	

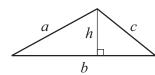
Elaine Thomas

1	h	f_c
	h_	_/
b		

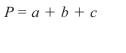
Parallelogram



Marcus Courage



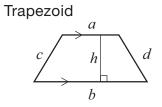
Triangle
$$P = a +$$



$$A = \frac{bh}{2}$$

$$A = \frac{1}{2}bh$$

Harshan Kyle



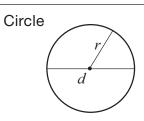
P = a + b + c + d

A =	$\frac{(a+b)h}{2}$

$$A = \frac{1}{2}(a+b)h$$

 $A = \pi r^2$

Mr. Gordon



$$C = \pi d$$

$$C = 2\pi r$$

	Geometric Figure	Surface Area	Volume
Danie	Cylinder	$A_{\mathrm{base}} = \pi r^{2}$ $A_{\mathrm{lateral\ surface}} = 2\pi r h$ $A_{\mathrm{total}} = 2A_{\mathrm{base}} + A_{\mathrm{lateral\ surface}}$ $= 2\pi r^{2} + 2\pi r h$	$V = (A_{\mathrm{base}})(\mathrm{height})$ $V = \pi r^2 h$
Hannı Kaan	Sphere	$A = 4\pi r^2$	$V = \frac{4\pi r^3}{3} \qquad \text{or} \qquad V = \frac{4}{3}\pi r^3$
Kevin	Cone	$A_{\mathrm{base}} = \pi r^{2}$ $A_{\mathrm{lateral\ surface}} = \pi r s$ $A_{\mathrm{total}} = A_{\mathrm{base}} + A_{\mathrm{lateral\ surface}}$ $= \pi r^{2} + \pi r s$	$V = \frac{(A_{\text{base}})(\text{height})}{3}$ $V = \frac{\pi r^2 h}{3} \qquad \text{or} \qquad V = \frac{1}{3}\pi r^2 h$
Ainsle Ethan		$A_{\text{base}} = b^2$ $A_{\text{triangle}} = \frac{bs}{2}$ $A_{\text{total}} = A_{\text{base}} + 4A_{\text{triangle}}$ $= b^2 + 2bs$	$V = \frac{(A_{\text{base}})(\text{height})}{3}$ $V = \frac{b^2 h}{3} \qquad \text{or} \qquad V = \frac{1}{3}b^2 h$
Micha	Rectangular prism el h l	A = 2(wh + lw + lh)	$V = (A_{\text{base}})(\text{height})$ $V = lwh$
Isla Josep	Triangular prism a c h	$A_{\text{base}} = \frac{bl}{2}$ $A_{\text{rectangles}} = ah + bh + ch$ $A_{\text{total}} = 2A_{\text{base}} + A_{\text{rectangles}}$ $= bl + ah + bh + ch$	$V = (A_{\text{base}}) \text{(height)}$ $V = \frac{blh}{2} \qquad \text{or} \qquad V = \frac{1}{2}blh$