Name:				

2D Shapes

Shape	Perimeter	Area
Square	P=4s	$A = s^2$
Rectangle	P = 2l + 2w or $P = 2(l + w)$	A = lw
Triangle $\begin{array}{c c} a & & \\ \hline & h & \\ \hline & b & \\ \end{array}$	P = a + b + c	$A = \frac{bh}{2}$
Circle	$C = \pi d$ or $C = 2\pi r$	$A = \pi r^2$

3D Objects

Object	Surface Area	Volume	9
Rectangular Prism h l	SA = 2wh + 2lw + 2lh or $SA = 2(wh + lw + lh)$	V = lwh	
Triangular Prism	$SA = bh + L(s_1 + s_2 + s_3)$	$V = \frac{bh}{2} \times L$ or $V = \frac{bhL}{2}$	
Cylinder	$SA = 2\pi r^2 + 2\pi r$	$V = \pi r^2 h$	
Sphere	$SA = 4\pi r^2$ or $SA = \pi d^2$	$V = \frac{4}{3}\pi r^3$ or $V = \frac{4\pi r^3}{3}$	
Cone	$SA = \pi r^2 + \pi rs$	$V = \frac{1}{3}\pi r^2 h$ or $V = \frac{\pi r^2 h}{3}$	
Square-Based Pyramid	$SA = {}^{2} + 2bs$	$V = \frac{1}{3}b^2h$ or $V = \frac{b^2h}{3}$	rectangular- based pyramid $V = \frac{lwh}{3}$