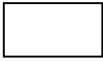




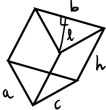





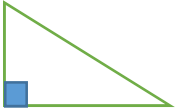



Formulas

		PERIMETER	AREA			SURFACE AREA	VOLUME
		<i>The distance around a 2D object.</i> Ex. Fence	<i>The number of units² of space in 2D shape.</i> Ex. Carpet			<i>The area of all outside sides of a 3D object.</i> Ex. Wrapping of a present	<i>The number of units³ of space in 3-D object.</i> Ex. Water in pool
RECTANGLE		$P = 2l + 2w$	$A = lw$	RECTANGULAR PRISM		$SA = 2lw + 2wh + 2lh$ or $A_{\text{left \& right}} + A_{\text{bottom \& top}} + A_{\text{front \& back}}$	$V = A_{\text{base}}h$ $V = lwh$
SQUARE		$P = 4s$	$A = s^2$	CUBE		$SA = 6s^2$	$V = s^3$
TRIANGLE		$P = a + b + c$	$A = \frac{bh}{2}$ or $\frac{1}{2}bh$	TRIANGULAR PRISM		$SA = 2A_{\text{triangles}} + A_{\text{rectangles}}$ $SA = bl + ah + bh + ch$	$V = A_{\text{base}}h$ $V = \frac{bl}{2}h$ or $\frac{1}{2}blh$
CIRCLE		$C = \pi d$ or $C = 2\pi r$	$A = \pi r^2$	CYLINDER		$SA = 2\pi r^2 + 2\pi rh$	$V = A_{\text{base}}h$ $V = \pi r^2 h$
TRAPEZOID		$P = a + b + c + d$	$A = \frac{h}{2}(a + b)$	PYRAMID		$SA = A_{\text{base}} + A_{\text{triangles}}$	$V = \frac{A_{\text{base}}h}{3}$ or $\frac{1}{3}A_{\text{base}}h$
COMPOSITE SHAPE		Add lengths of all sides.	Find area of separate shapes and add together.	CONE		$SA = \pi r^2 + \pi rl$	$V = \frac{\pi^2 h}{3}$ or $\frac{1}{3}\pi^2 h$
PYTHAGOREAN THEOREM				SPHERE		$SA = 4\pi r^2$	$V = \frac{4\pi r^3}{3}$ or $\frac{4}{3}\pi r^3$

$$a^2 + b^2 = c^2$$

Hypotenuse must be
-across 90o angle
-the "c" in the equation
-the longest side