Geometric Formulas



Shape	General Formulas	Picture
Rectangular Solids (Boxes)	Surface Area (with top and bottom): SA = 2LW + 2LH + 2WH	Н
	Volume: $V = L \cdot W \cdot H$	
Cubes	Surface Area (with top and bottom): $SA = 6s^2$	2 S
	Volume: $V = s \cdot s \cdot s = s^3$	S S
Spheres	Surface Area: $SA = 4\pi r^2$	r r
	Volume: $V = \frac{4}{3}\pi r^3$	
Cylinders	Surface Area (with top and bottom): $SA = 2\pi rh + 2\pi r^{2}$	r
	$SA = 2\pi r n + 2\pi r$	h
	Volume: $V = \pi r^2 h$	
Cones	Surface Area (with bottom): SA = $\pi rs + \pi r^2$	
	Volume: $V = \frac{1}{3}\pi r^2 h$	h r
Pyramids (Square-based)	Surface Area (with bottom):	
	$SA = 2ds + s^2$	
	Volume: $V = \frac{1}{3}s^2h$	s s
Prisms	Surface Area (with top and bottom): SA = $2B + h$: (Perimeter of base)	
	Volume: $V = B \cdot h$	
		B = Area of Base

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