

Chapter 12 Formulas
Surface Area and Volume

Solid (draw diagram)	Surface Area	Volume
Cube	$L.A. = P_B \cdot h$ $T.A. = L.S.A + 2A_B$	$V = s^3$
Regular Right Prism	$L.A. = P_B \cdot h$ $T.A. = L.S.A + 2A_B$	$V = A_B \cdot h$
Right Pyramid	$L.A. = \frac{1}{2} P_B \cdot l$ $T.A. = L.S.A + A_B$	$V = \frac{1}{3} A_B \cdot h$
Right Circular Cylinder	$L.A. = P_B \cdot h$ $T.A. = L.S.A + 2A_B$	$V = A_B \cdot h$
Right Circular Cone	$L.A. = \frac{1}{2} P_B \cdot l$ $T.A. = L.S.A + A_B$	$V = \frac{1}{3} A_B \cdot h$
Sphere	$T.A. = 4\pi r^2$ $T.A. \text{ hemisphere} = 2\pi r^2 + A_B$	$V = \frac{4}{3} \pi r^3$