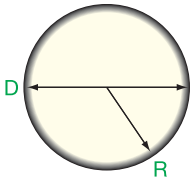
Area and Volume Formulas

Circle

$D = 2R$

$C = 2\pi R = \pi D$

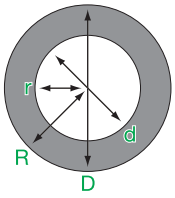
$A = \pi R^2 = \frac{\pi D^2}{4}$



Circular Ring

$A = \pi (R^2 - r^2)$

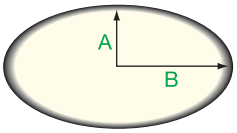
$= 0.7854 (D^2 - d^2)$



Ellipse

$A = \pi \times A \times B$

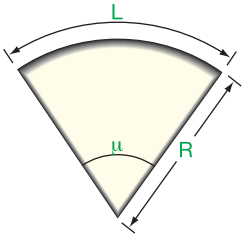
$C = \pi \sqrt{2(A^2 + B^2)}$



Sector

$A = \frac{\pi R^2 \propto}{360} = \frac{RL}{2}$

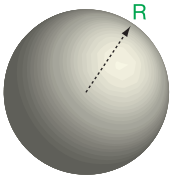
$L = \frac{\pi R \propto}{180} = \frac{2A}{R}$



Sphere

$A = 4\pi R^2$

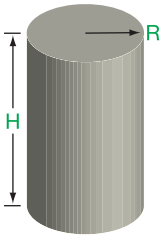
$V = \frac{4\pi R^3}{3}$



Cylinder

$A = 2\pi R (R + H)$

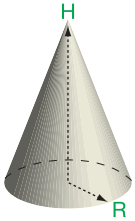
$V = \pi R^2 H$



Cone

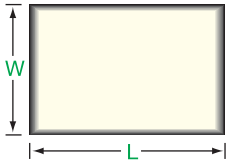
$A = \pi R \sqrt{(R^2 + H^2)}$

$V = \frac{\pi R^2 H}{3}$



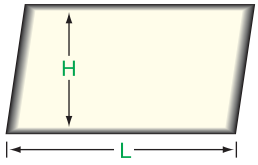
Rectangle

$A = L \times W$



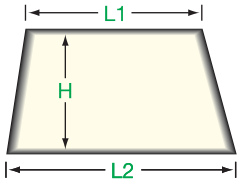
Parallelogram

$A = L \times H$



Trapezoid

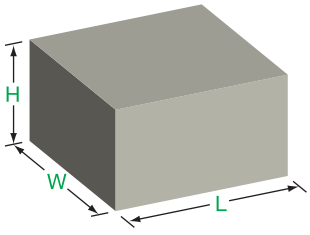
$A = \frac{(L1 + L2)\, H}{2}$



Rectangular Solid

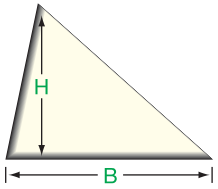
$A = 2 (WL + LH + HW)$

$V = W \times L \times H$



Triangle

$A = \frac{B \times H}{2}$

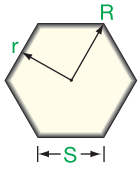


Hexagon

$S = R = 1.155r$

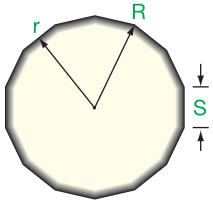
$A = 2.598\ S^2$

$= 3.464\ r^2$



Regular Polygon

$A = \frac{NSr}{2} = \frac{NS}{2} \sqrt{R2 - \frac{S^2}{4}}$



A = Area **C** = Circumference **D** = Diameter **N** = Number of sides

V = Volume **R** = Radius **S** = Length of side ∝ = Angle

π = 3.1416

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