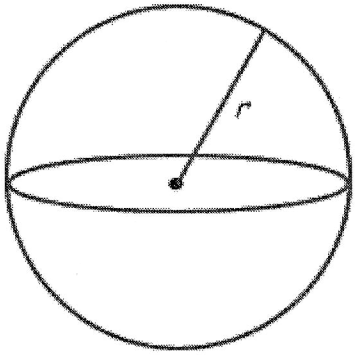
Useful Equations

Sphere

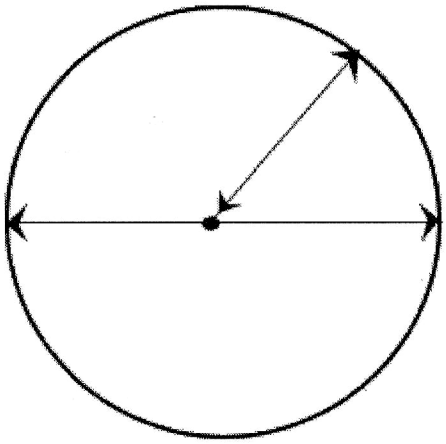
Surface Area $A = 4\pi r^2$



Volume $V = \frac{4}{3}\pi r^3$

Circle

Perimeter $C = \pi d$ or $C = 2\pi r$



Area $A = \pi r^2$

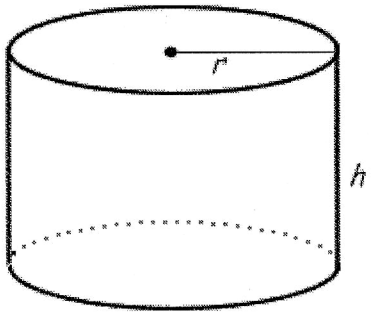
Note: The value of π is 3.1415926 (to 7 decimal places)

Cylinder

Surface Area — We will need to calculate the surface area of the top, base and sides.

Area of the top is πr^2
Area of the bottom is πr^2
Area of the side is $2\pi rh$

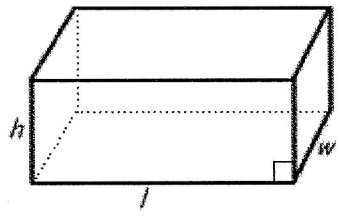
Therefore the Formula is: $A = 2\pi r^2 + 2\pi rh$



Volume $V = \pi r^2 h$

Rectangular Prism

Surface Area $A = 2(wh + lw + lh)$



Volume $V = lwh$