

Prism

L.A. = ph
S.A. = L.A. + $2B$

$V = Bh$

Cylinder

L.A. = $2\pi rh$
S.A. = L.A. + $2\pi r^2$
 $V = \pi r^2 h$

Pyramid

L.A. = $\frac{1}{2}pl$
S.A. = L.A. + B

Cone

$V = \frac{1}{3}Bh$

Sphere

$V = \frac{4}{3}\pi r^3$
S.A. = $4\pi r^2$

Similar Solids

scale = $\frac{S_1}{S_2}$

$\frac{SA_1}{SA_2} = \left(\frac{S_1}{S_2}\right)^2$

$\frac{V_1}{V_2} = \left(\frac{S_1}{S_2}\right)^3$

Euler's Law
(It's pronounced "Oiler," by the way. Go figure.)

$F + V = E + 2$

F - # faces
V - # vertices
E - # edges

Key to Symbols

S.A.	Surface area	B	Area of base	h	Perpendicular height
V	Volume	L.A.	Lateral Area	ℓ	Lateral height
r	Radius	p	Perimeter of base		