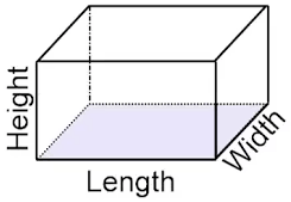
Volume Formulas & Pythagorean Theorem

Rectangular Prism

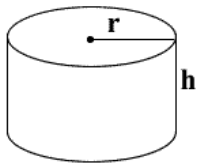
$$V = Area\ of\ the\ Base \cdot Height$$



$$The\ Base\ is\ a\ rectangle\ so\ the$$
$$Area\ of\ the\ Base = l \cdot w$$

Cylinder

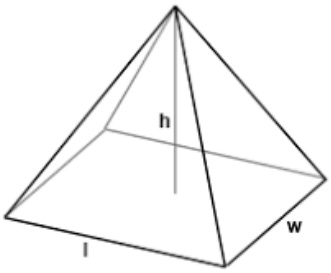
$$V = Area\ of\ the\ Base \cdot Height$$



$$The\ Base\ is\ a\ Circle\ so\ the$$
$$Area\ of\ the\ Base = \pi r^2$$

Pyramid

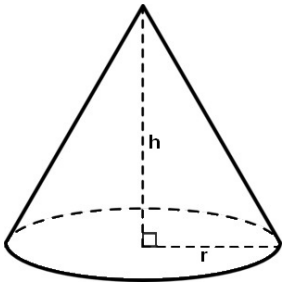
$$V = \frac{Area\ of\ the\ Base \cdot Height}{3}$$



$$The\ Base\ is\ a\ rectangle\ so\ the$$
$$Area\ of\ the\ Base = l \cdot w$$

Cone

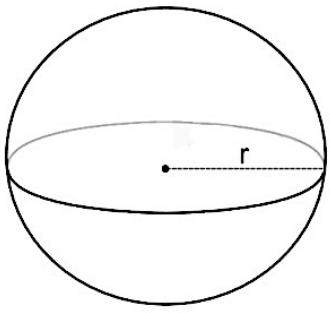
$$V = \frac{Area\ of\ the\ Base \cdot Height}{3}$$



$$The\ Base\ is\ a\ Circle\ so\ the$$
$$Area\ of\ the\ Base = \pi r^2$$

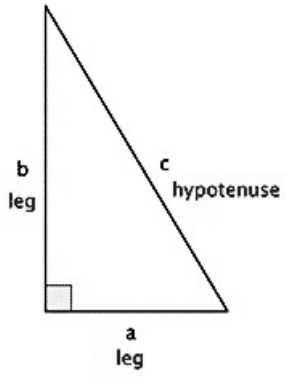
Sphere

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



Pythagorean Theorem

$$a^2 + b^2 = c^2$$



****On the Chapter 10 Test, you will not be allowed a calculator but you will be allowed to leave answers in π form****