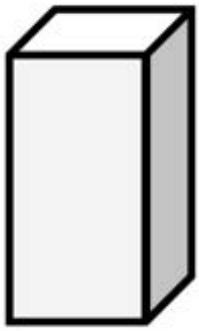
Prisms:

A solid figure having at least one pair of parallel surfaces that create a uniform cross-section.

Bases	**Altitude or Height**	**Lateral Faces**
The faces that create the uniform cross-section.	The distance between the bases	All faces NOT including the bases.

Volume	**Lateral Surface Area**	**Total Surface Area**
The total amount of space in a solid. Measured in cubic units.	The area of all surfaces excluding the two bases. Measured in square units.	The sum of the lateral surface area and the two bases. Measured in square units.



$$L = Ph$$

$$S = L + 2A$$

$$V = Ah$$

Pyramid:
A solid object with one base and three or more lateral faces that taper to a single point opposite the base.

Apex	**Altitude**	**Slant height**
The single point tat all sides taper to.	The perpendicular distance from the apex to the base.	The height of one of the lateral faces.

$$L = \frac{1}{2}Ps$$

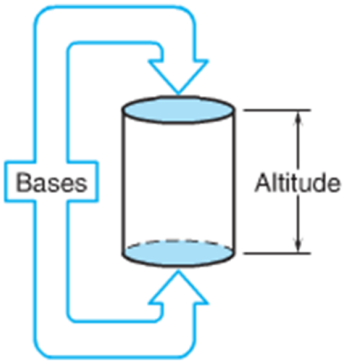
$$S = L + A$$

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

Cylinder:
A solid object with two identical circular bases.

$$L = \pi dh \quad \text{OR} \quad L = 2\pi rh$$

$$V = \pi r^2 h$$



Sphere:
The surface whose points are all equidistant from a given point called the center.

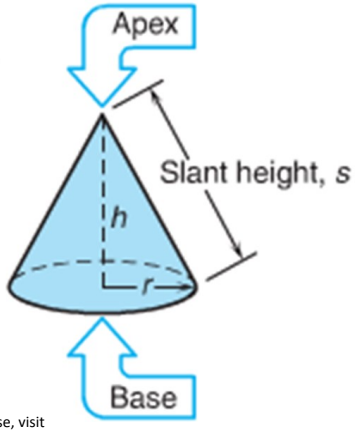
$$S = 4\pi r^2 \quad \text{OR} \quad S = \pi d^2$$

$$V = \frac{4}{3}\pi r^3 \quad \text{OR} \quad V = \frac{1}{6}\pi d^3$$

Cone:
A pyramid-like solid figure with a circular base.

$$L = \frac{1}{2}\pi ds \quad \text{OR} \quad L = \pi rs$$

$$V = \frac{1}{3}\pi r^2 h$$



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