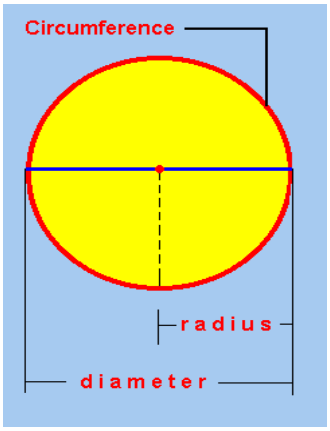
Circle Formulas



Circumference = $2 \cdot \pi \cdot \text{radius} = \pi \cdot \text{diameter}$

Circle Area = $\pi \cdot r^2 = \frac{1}{4} \cdot \pi \cdot d^2$

Volume :- Area x Thickness

Weight :- Volume X density

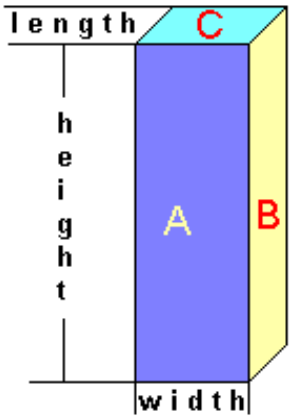
Sphere Formulas

Sphere Surface Area = $4 \cdot \pi \cdot r^2 = \pi \cdot d^2$

Sphere Volume = $4/3 \cdot \pi \cdot r^3 = (\pi \cdot d^3)/6$

Weight :- volume x density

Rectangular Prisms (or Solids)



The above figure is called a *rectangular prism.*

Volume = length × width × height

Area of Face 'A' = height × width

Area of Face 'B' = height × length

Area of Face 'C' = width × length

Weight = volume x density

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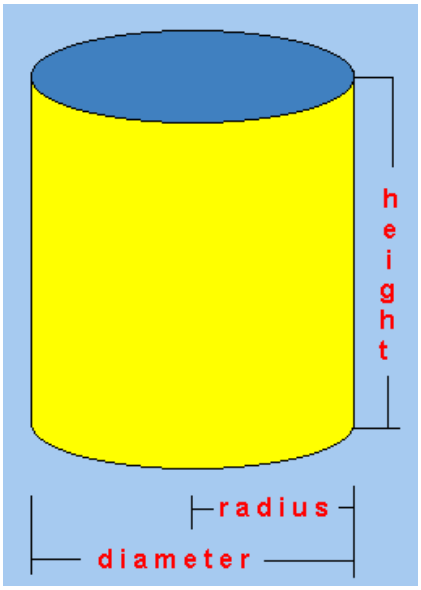
Cylinder Formulas



Surface Area = $(2 \cdot \pi \cdot r^2) + (2 \cdot \pi \cdot r \cdot \text{height})$

Where $(2 \cdot \pi \cdot r^2)$ is the surface area of the "ends" and $(2 \cdot \pi \cdot r \cdot \text{height})$ is the lateral area (the area of the "side").

Volume $= \pi \cdot r^2 \cdot \text{height} = \frac{1}{4} \cdot \pi \cdot d^2 \cdot \text{height}$

Weight = volume x density