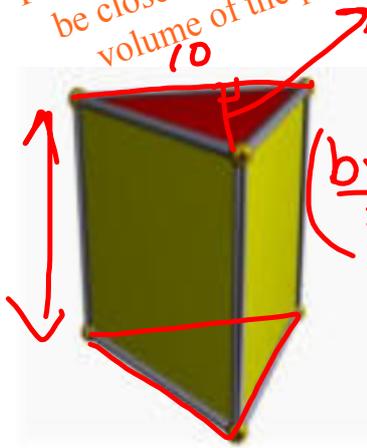


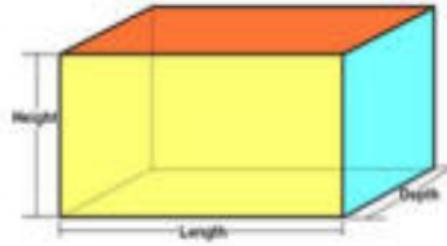
Volume of Containers

To save money volume should be close as possible to the volume of the product



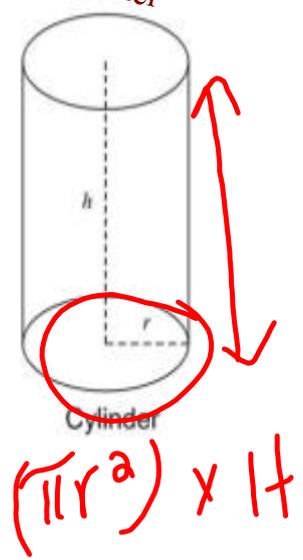
Triangular Prism

Prisms
 $\left(\frac{b \times h}{2}\right) \times H$
 $(L \times W) \times H$



Rectangular Prism

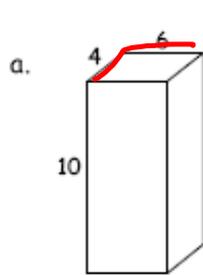
We have to use cross-sections to help determine the area and volume of a container



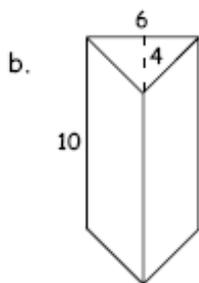
Cylinder

Volume = (Area of the base) x Height

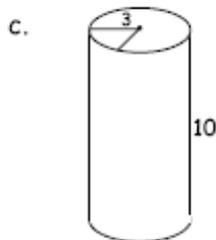
Find the volumes (dimensions are cm):



$$\begin{aligned} & (l \times w) \times H \\ & (4 \times 6) \times 10 \\ & \underline{24 \times 10} = 240 \text{ cm}^3 \end{aligned}$$



$$\begin{aligned} & \left(\frac{b \times h}{2} \right) \times H \\ & \left(\frac{6 \times 4}{2} \right) \times 10 \\ & \underline{\frac{24}{2} \times 10} \\ & 12 \times 10 = 120 \text{ cm}^3 \end{aligned}$$



$$\begin{aligned} & \pi r^2 \times H \\ & 3.14(3)^2 \times 10 \\ & \underline{3.14(9) \times 10} \\ & 282.6 \text{ cm}^3 \end{aligned}$$