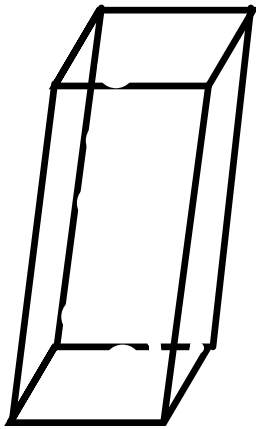


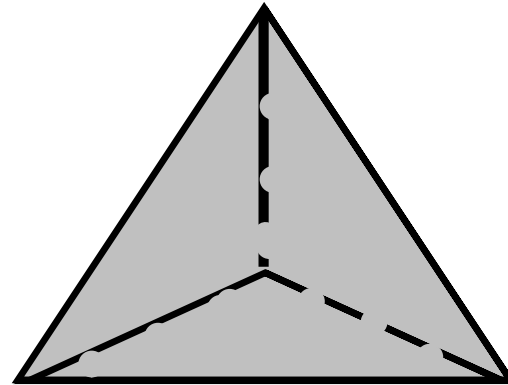
8.7. Volume

May 16, 2007

Prisms vs. Pyramids.



2 Bases



1 Base w/1 Pt.

Area is in Squared units^②

2 #'s to get Area

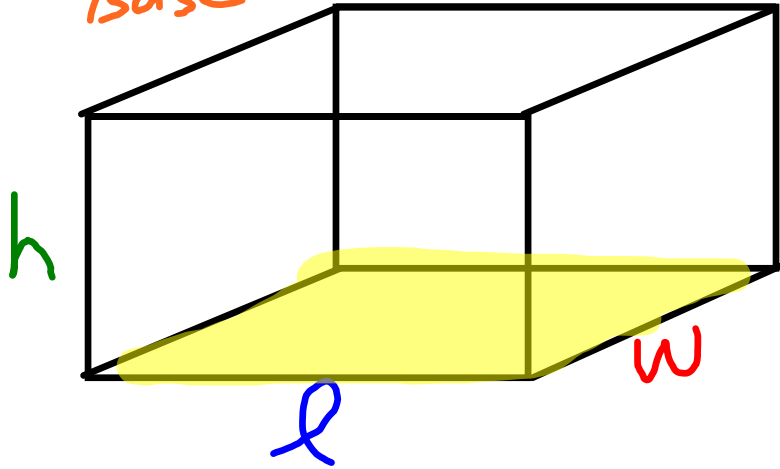
Volume is in cubed units^③

3 #'s to get Volume

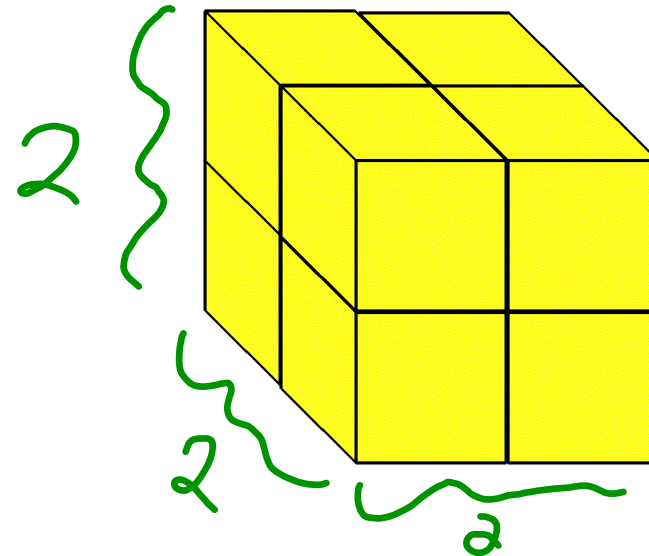
Rectangular Prism.

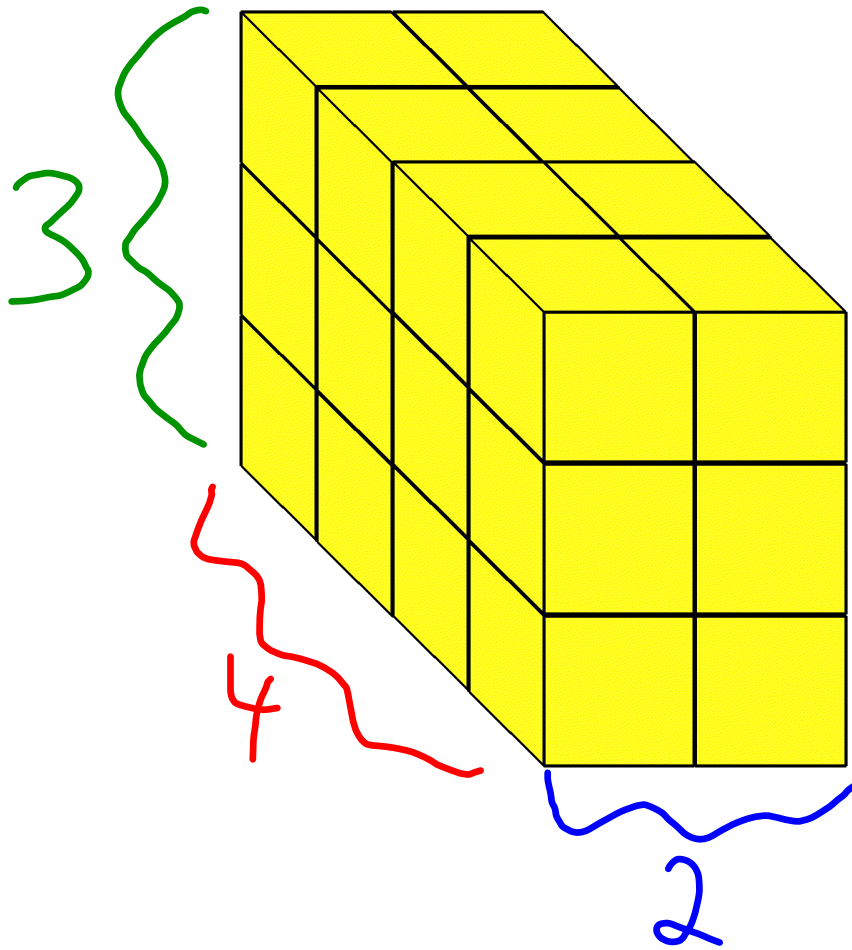
Base

Shape



How Many Cubes





$$\begin{aligned} V &= 3 \cdot 4 \cdot 2 \\ &= \underline{\underline{24 \text{ cubes}}} \end{aligned}$$

$$V = \boxed{l \cdot w} \cdot h \Rightarrow \text{Rectangular Prism}$$

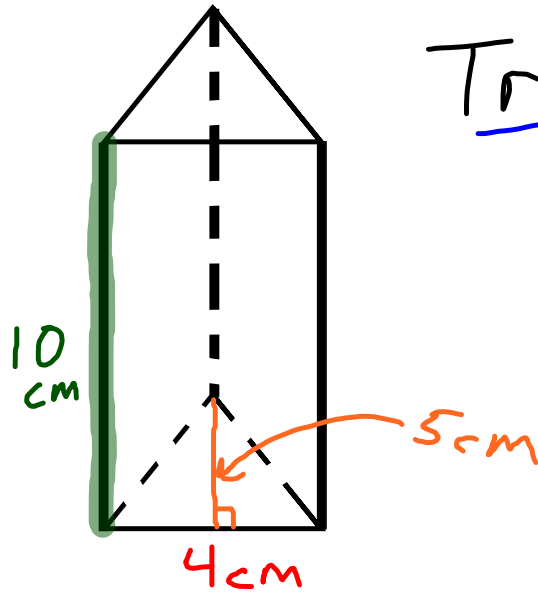
$$V = A_{RB} \cdot h$$

(Area of the Base) · Height

$$V = A_{\Delta B} \cdot h$$

$$\boxed{A_{\Delta} = \frac{1}{2} \cdot b \cdot h}$$

(Area of Base) · h



Triangular Prism
(Base) (shape)

$$V = A_B \cdot h$$

$$A_B = A_T = \frac{1}{2}(b \cdot h)$$

$$= \frac{1}{2}(\underline{4\text{cm}})(\underline{5\text{cm}})$$

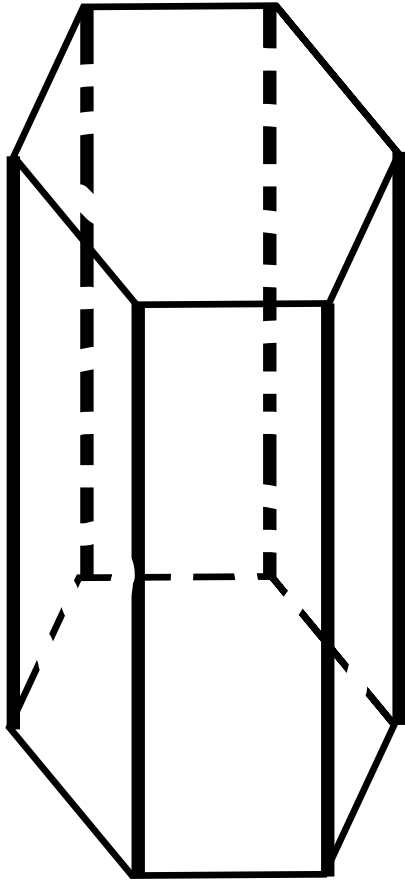
$$= \frac{1}{2} \underline{20\text{cm}^2}$$

$$= \underline{10\text{cm}^2}$$

$$V = A_B \cdot h$$

$$= (\underline{10\text{cm}^2})(\underline{10\text{cm}})$$

$$= \underline{100\text{cm}^3}$$

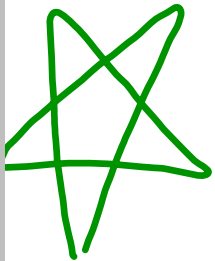


Hexagonal Prism

$$\underline{\underline{V = A_B \cdot h}}$$

O.T.L.

None ☺



1: Posters Due Wednesday May 23, 2007

2: Notebooks Due Wednesday May 23, 2007

