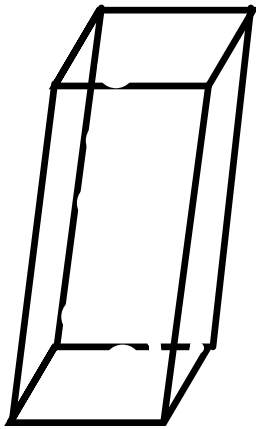


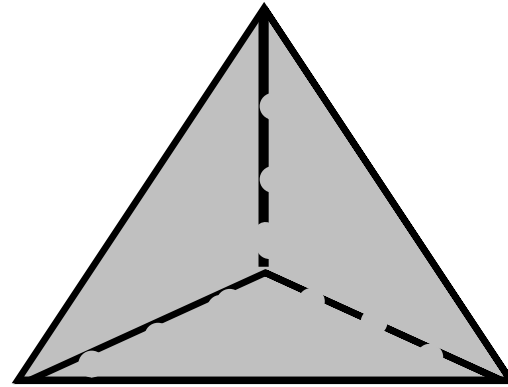
8.7. Volume

May 16, 2007

Prisms vs. Pyramids.



2 Bases



1 Base w/1 Pt.

Area is in Squared units ^②

2 #'s to get Area

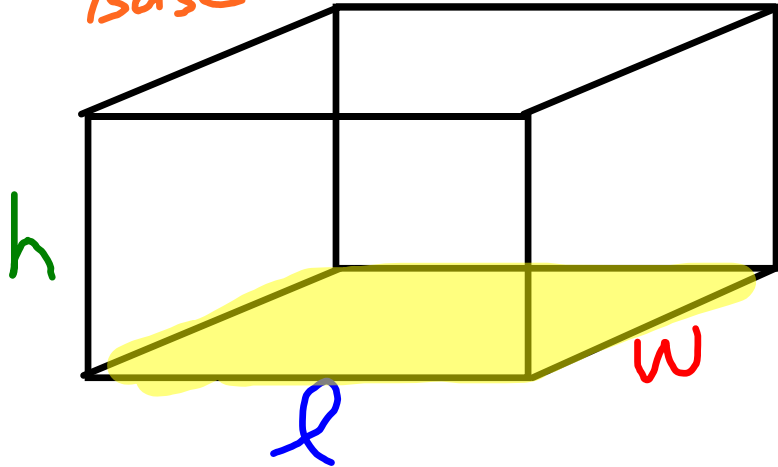
Volume is in cubed units ^③

3 #'s to get Volume

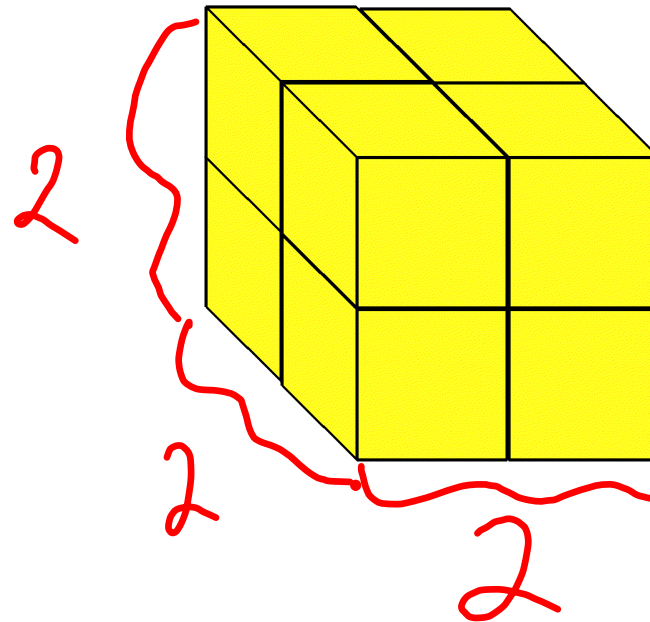
Rectangular Prism.

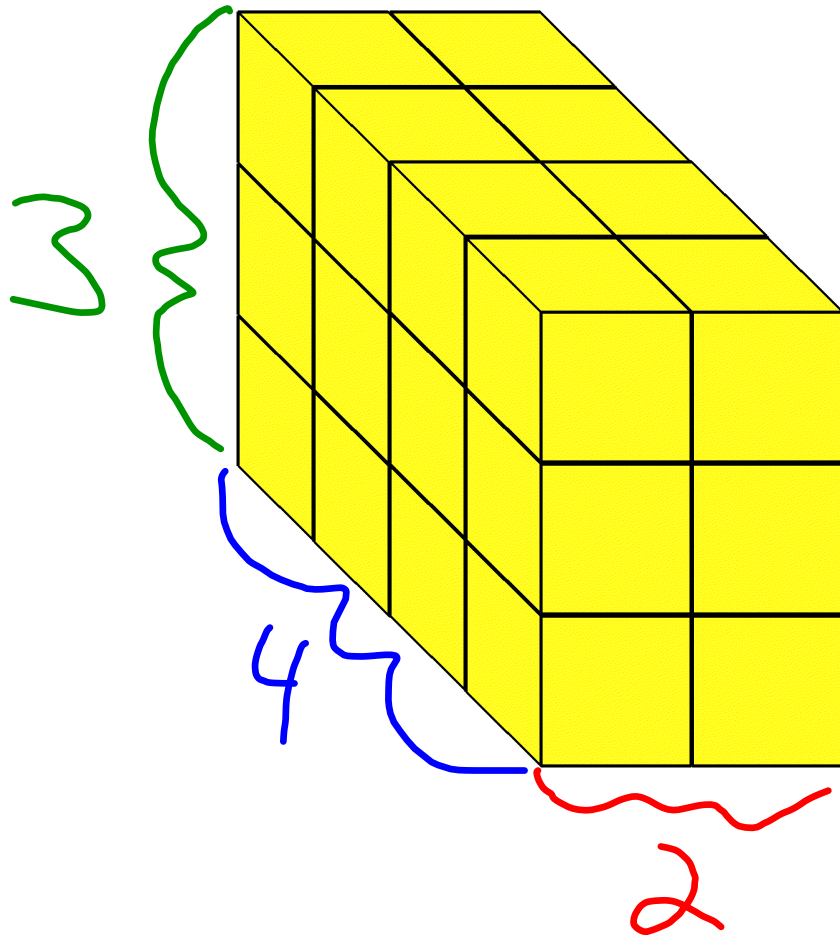
Base

Shape



How Many Cubes





$$V = 3 \cdot 4 \cdot 2$$
$$= 24 \text{ cubes}$$

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

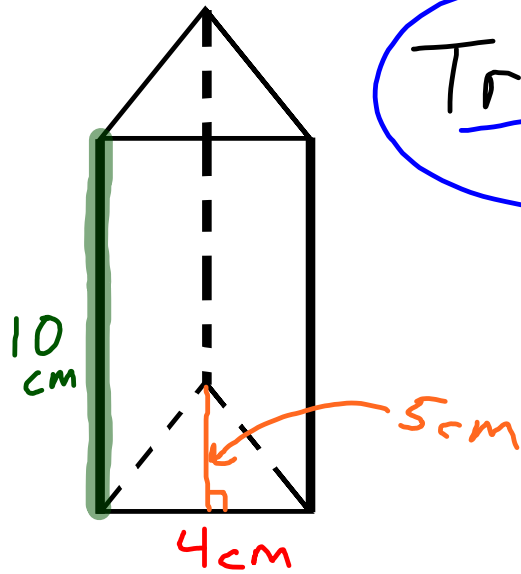
$$V = A_{RB} \cdot h$$

(Area of the Base) · Height

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

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

$$\boxed{\text{(Area of Base)} \cdot h}$$



Triangular Prism
(Base) (shape)

$$V = A_B \cdot h$$

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

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

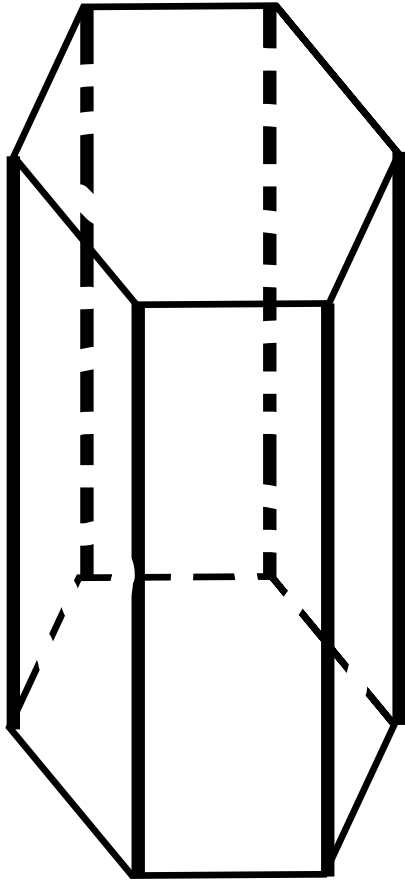
$$= \frac{1}{2} 20\text{cm}^2$$

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

$$V = A_B \cdot h$$

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

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

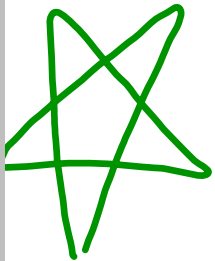


Hexagonal Prism

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

O.T.L.

None ☺



1: Posters Due Wednesday May 23, 2007

2: Notebooks Due Wednesday May 23, 2007

