

Pyramid: The volume  $V$  of a pyramid is  $\frac{1}{3}$  of the area of the base  $B$

\* Do ~~the~~ times the height  $h$ .

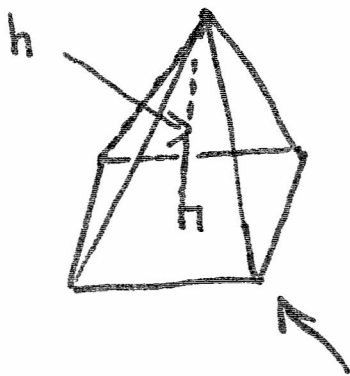
NOT  
CHANGE

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

$\frac{1}{3}$  to a rectangular pyramid:  $V = \frac{1}{3} (l \cdot w) \cdot h$

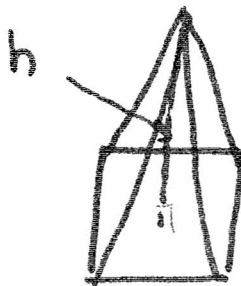
decimal triangular pyramid:  $V = \frac{1}{3} \left(\frac{b \cdot h}{2}\right) \cdot h$

Rectangular  
Pyramid



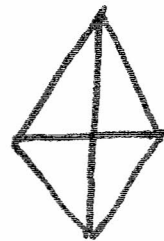
$$V = \frac{l \cdot w \cdot h}{3}$$

Square  
Pyramid



$$V = \frac{1}{3} \left(\frac{bh}{2}\right) \cdot h$$

Triangular  
Pyramid



Volume of a Pyramid

Sphere : The volume of a sphere  
is  $\frac{4}{3}\pi$  times the cube of  
the radius  $r^3 \Rightarrow r \cdot r \cdot r$

\* do not  
change  $\frac{4}{3}$   
to a decimal

$$V = \frac{4}{3} \pi r^3$$



Volume of A Sphere

Cone: The volume of a cone is  $\frac{1}{3}$  of the area of the circular base B times the height  $h$ .

\* do not change  $\frac{1}{3}$  to a decimal.

$$V = \frac{1}{3} B h$$

or

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

