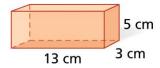
Geometry: 10-6 Notes

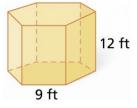
Formula for Volume of a Prism/Cylinder:

Examples:

1) Find the volume of the rectangular prism.



2) Find the volume of the right, regular hexagonal prism.



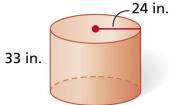
3) Find the volume of a cylinder with base area 121π cm² and a height equal to twice the radius. Draw a Diagram.

Find the effect on the volume when dimensions are changed...

Α	В	С	D	
3D Figure	Volume	Change in dim. from column A	Volume	Ratio (col. B : col. D)
1. Rect. Prism (3m x 4m x 5m)		All lengths are x 3		
2. Cylinder (r = 2 in, h = 6 in)		All lengths are $x \frac{5}{2}$		
In General				

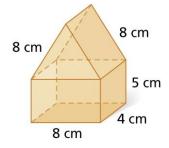
Examples:

4) The radius and height are multiplied by $\frac{2}{3}$. Describe the effect on the volume. Then find the volume of the new cylinder.



Composite Figures

5) Find the volume.



6) Find the volume.

