

Advanced Geometry
Volume of 3D Figures

Name: _____

1.) **Prism:**

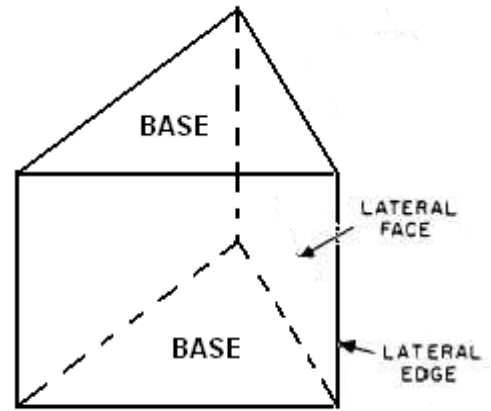
2.) **Base:**

3.) **Lateral Faces:**

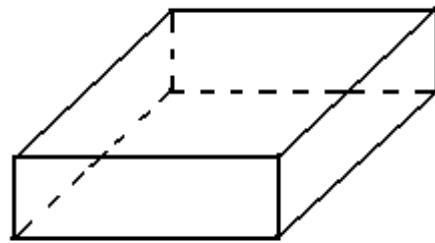
4.) **Oblique Prisms:**

5.) **Altitude:**

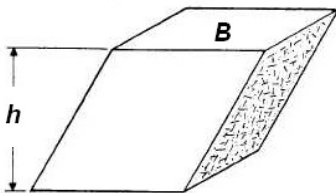
6.) **Height:**



Volume of a Rectangular Prism:



Volume (in general):



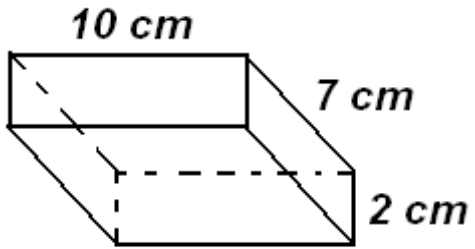
V =

Cavalieri's Principle

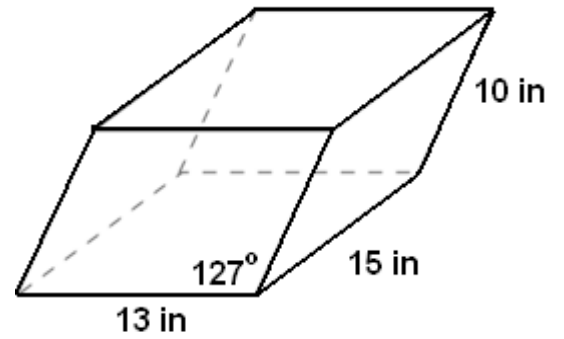


Find the volume of the figure in each problem...

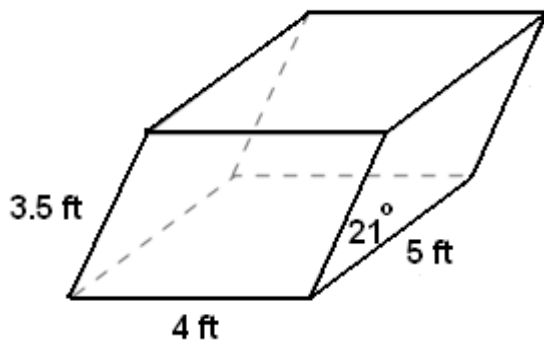
[EX 1] (Rectangles)



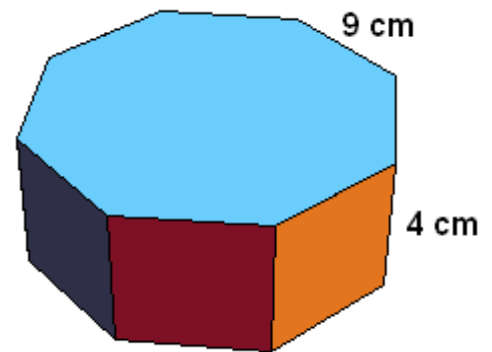
[EX 2] P-grams with Rectangular Bases



[EX 3] P-grams with Rectangular Bases



[EX 4] Octagonal Prism



[EX 5] Radius = 4.9 cm

