

**Advanced Geometry**  
**Volume of 3D Figures**

Name: \_\_\_\_\_

1.) **Prism:**

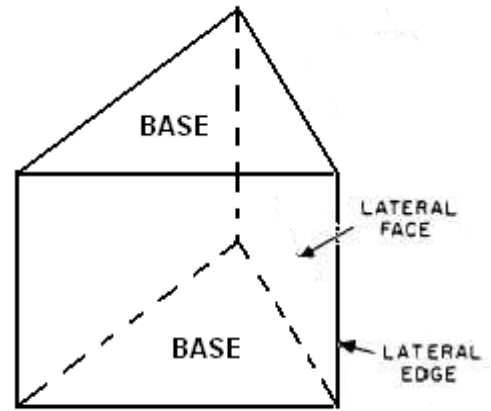
2.) **Base:**

3.) **Lateral Faces:**

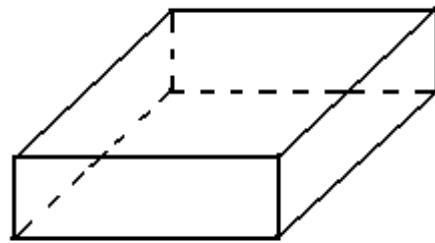
4.) **Oblique Prisms:**

5.) **Altitude:**

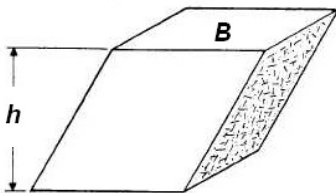
6.) **Height:**



**Volume of a Rectangular Prism:**



**Volume (in general):**



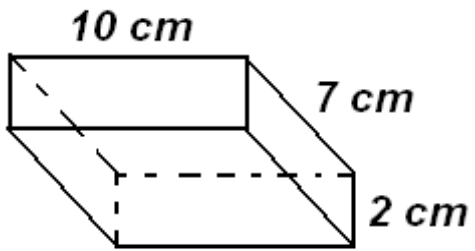
**V =**

**Cavalieri's Principle**

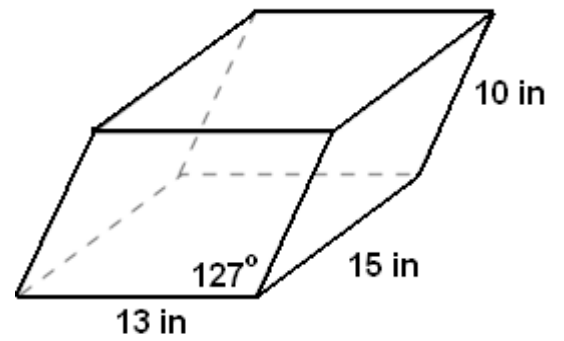


Find the volume of the figure in each problem...

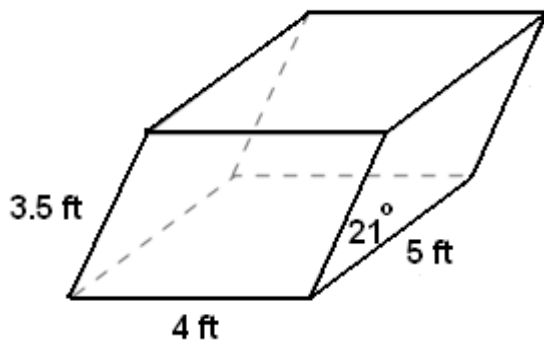
[EX 1] (Rectangles)



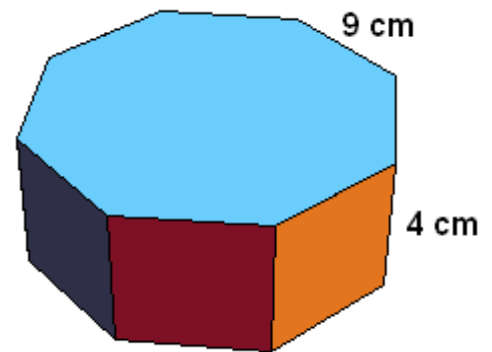
[EX 2] P-grams with Rectangular Bases



[EX 3] P-grams with Rectangular Bases



[EX 4] Octagonal Prism



[EX 5] Radius = 4.9 cm

