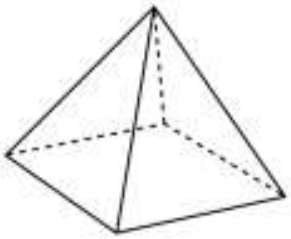
Geo Practice #25 Sec 11-1 & 11-2 Mon to Thur, May 18 to 21, 2020

1. An Icosahedron has 20 faces that are all equilateral triangles. There are 12 vertices. Find the number of Edges.

Edges =

For 2 and 3 draw or describe the cross section formed in each problem.

2. Using the Square Pyramid shown (the bottom is a square)



a) Horizontal Cross Section between the bottom and the point at the top.

b) Vertical Cross Section through the point at the top and parallel to one of the edges of the base.

c) Vertical Cross Section not through the point at the top and is parallel to one of the edges of the base.

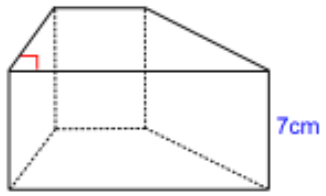
3. Picture a typical Bagel.

a) Horizontal Cross Section cutting the bagel in half.

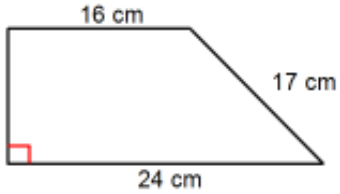
b) Vertical Cross Section cutting the bagel in half.

For 4 and 5 find the Surface Area of each prism. Round to the nearest hundredth.

4. Trapezoidal Prism

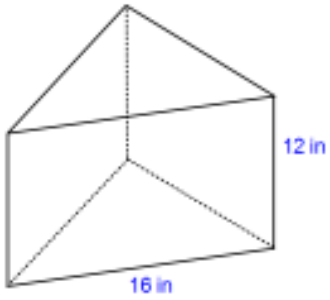


Base:



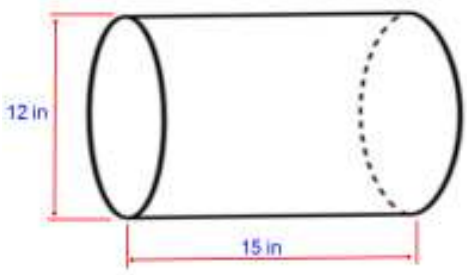
SA: =

5. Base is an Equilateral Triangle



SA =

6. Find the SA of this cylinder to the nearest hundredth.



SA =

7. The surface area of a cylinder with a radius of 5cm is 800 cm^2. Find the height of the cylinder to the nearest hundredth.

Height =