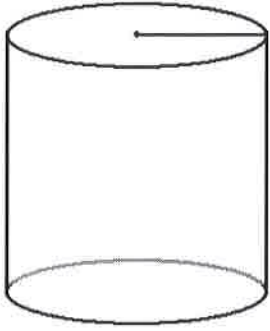


Objective: to analyze cross sections of various objects and make conclusions from our observations.

Object 1: Cylinder



Vertical Cross Sections:

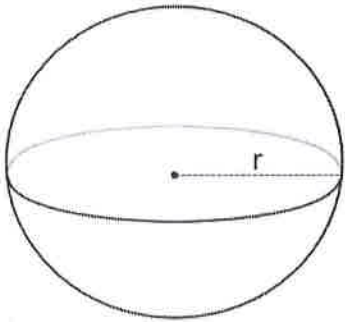
rectangle



Horizontal Cross Sections:

circle ○

Object 2: Sphere



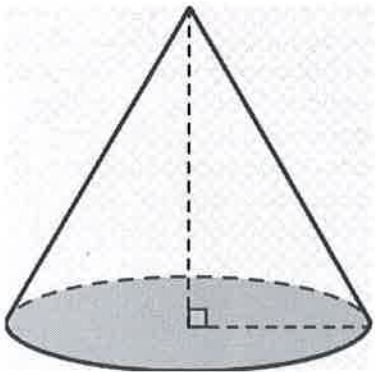
Vertical Cross Sections:

circle ○

Horizontal Cross Sections:

circle ○

Object 3: Cone



Vertical Cross Sections:

triangle



Horizontal Cross Sections:

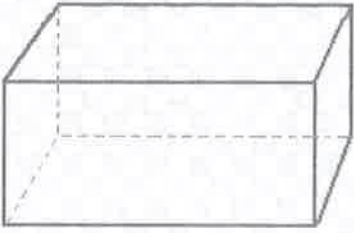
circle ○



Object 4: Rectangular Prism

Vertical Cross Sections:

Horizontal Cross Sections:



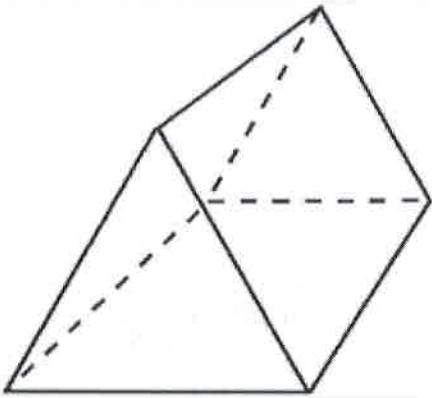
rectangle 

rectangle 

Object 5: Triangular Prism

Vertical Cross Sections:

Horizontal Cross Sections:



triangle 

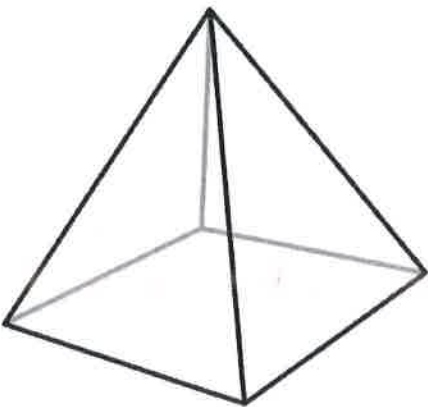
rectangle 

trapezoid 

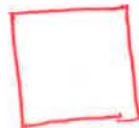
Object 6: Square Pyramid

Vertical Cross Sections:

Horizontal Cross Sections:



square



trapezoid 

triangle 

Summary:

Tell me at least five things you learned throughout this lab:

1. _____

2. _____

3. _____

4. _____

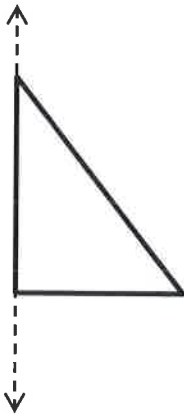
5. _____

6. _____

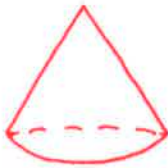
7. _____

Example 1: Visualize the 3-dimensional solid that would be formed if each of the following figures was rotated around the axis represented by the dashed line. Sketch and name that figure.

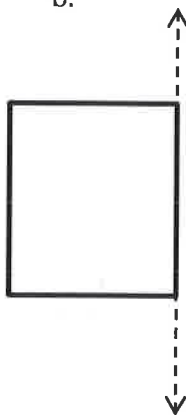
a.



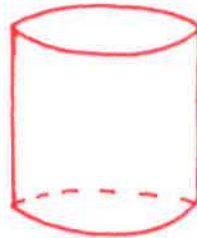
Cone



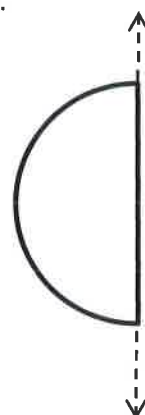
b.



Cylinder



c.



Sphere



Example 2: Visualize each of the following 3-dimensional figures. Sketch and name each solid.

a. A circle rotated about one of its diameters.

b. An isosceles triangle rotated about its base.



Sphere



Composite of two cones

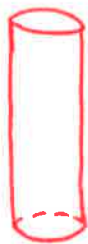


c. A rectangle rotated about one of its sides.

d. A right triangle rotated about one of its legs.



Cylinder



Cone

