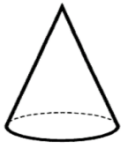
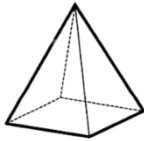


Three Dimensional Figures

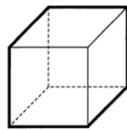
Cone



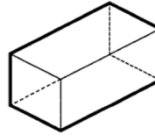
Pyramid



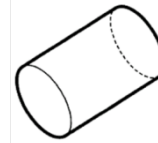
Cube



Rectangular
Prism



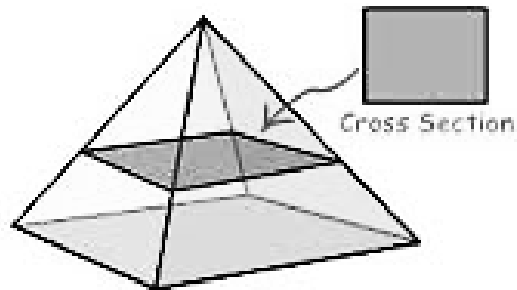
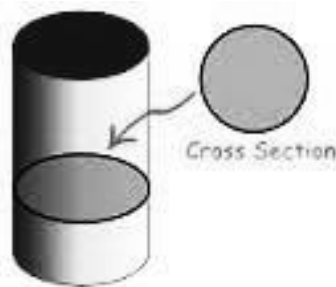
Cylinder



Sphere



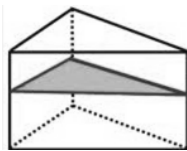
A **cross section** is the intersection of a solid and a plane. You can think of a cross section as a very thin slice.



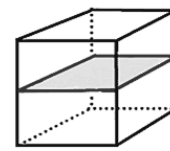
Demonstration Applet: http://www.learner.org/courses/learningmath/geometry/session9/part_c/index.html

Example 1: Describe the shape of each cross section.

a.



b.



Different cross sectional shapes can occur depending how you slice it.

Example 2:

Describe the shape of each cross section.

Vertical Slice



Angled Slice



Horizontal Slice

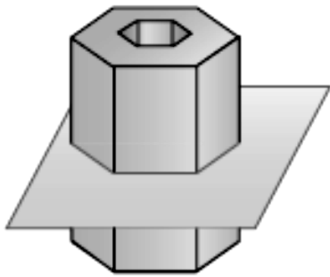


Complete the Play-Doh Investigation in a group. Turn in your activity sheet before the end of the hour.

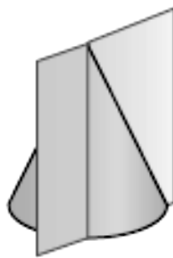
Homework: pages 524 – 526 #17 – 19, 37 – 42, 53 - 54

Describe each cross section.

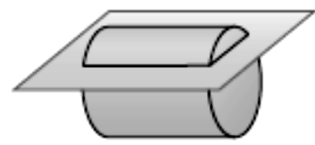
17.



18.



19.

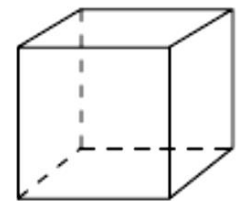


Visualization Draw and describe a cross section formed by a plane intersecting the cube as follows.

37. The plane is tilted and intersects the left and right faces of the cube.

38. The plane contains opposite horizontal edges of the cube.

39. The plane cuts off a corner of the cube.



Describe the cross section shown.

40.



41.

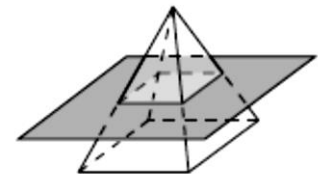


42.



53. The plane is horizontal. What best describes the shape of the cross section?

- A. rhombus B. trapezoid
C. parallelogram D. square



54. The plane is vertical. What best describes the shape of the cross section?

- F. pentagon G. square
H. rectangle I. triangle

