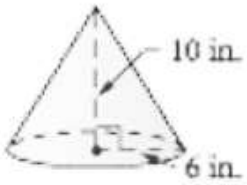
Geometry Unit 7 **Name:** _____

Review Assignment Day 1 – 6. **Date:** _____ **Hour:** _____

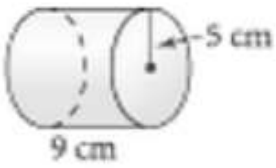
<u>Part A:</u> Complete the following exercises. Leave answers in terms of π.

Find the volume of each figure:

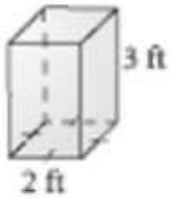
1. _____



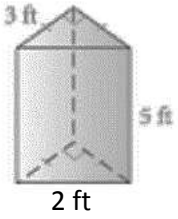
2. _____



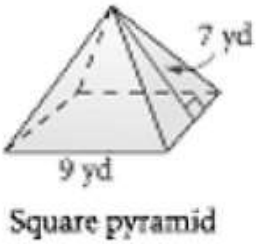
3. _____



4. _____

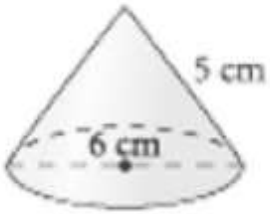


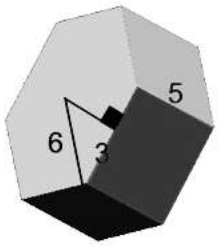
5. _____



Square pyramid

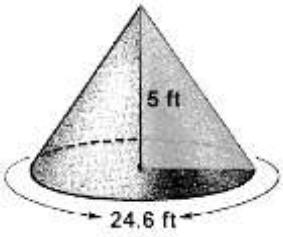
6. _____

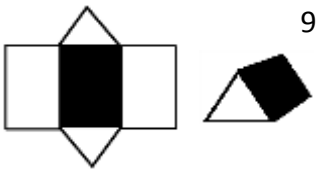




7. Find the volume of the right hexagonal prism.

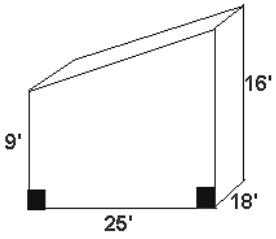
8. Find the volume of this right circular cone to the *nearest cubic foot.*





9. If this 2-dimensional net is assembled, will it form the 3-dimensional figure shown below?

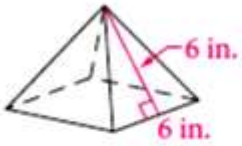
10. Find the volume of the composite figure in cubic feet.



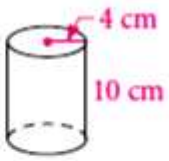
Part B: **Complete the following exercises (PH CH 10 Test).**

Draw a net for each figure. Label the net with appropriate dimensions.

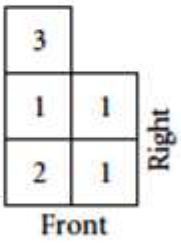
1.



2.



Use the foundation drawing at the right for Exercises 3 and 4.



3. Create an isometric drawing.

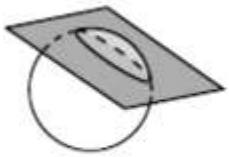
4. Create an orthographic drawing.

5. Find the number of edges in a pyramid with seven faces.

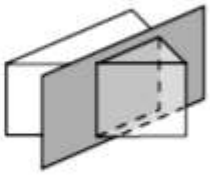
(Trace on other paper to complete #3)

Describe the cross section formed in each diagram.

6.



7.



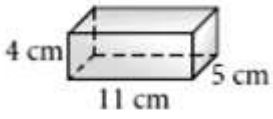
Aviation **The "black box" data recorders on commercial airliners are rectangular prisms.**

8. The base of a recorder is 15 in. by 8 in. Its height ranges from 15 in. to 22 in. What are the largest and smallest possible volumes for the recorder?

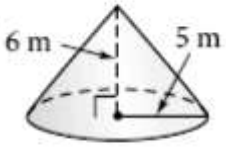
9. New flight data recorders are smaller and record more data. A new recorder might be 8 in. by 8 in. by 13 in. What is its volume?

Find the volume of each figure. Round answers to the nearest tenth.

10.



12.



13.