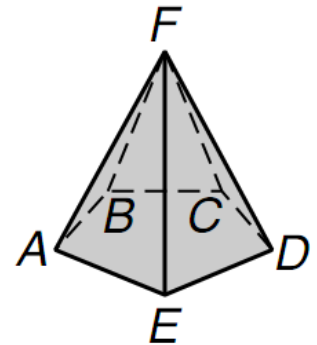


**Geometry B**  
**Unit 11 Review**

Name \_\_\_\_\_  
Hour \_\_\_\_\_ Date \_\_\_\_\_

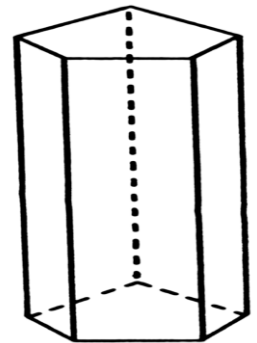
1. Refer to the figure at the right.

- a. Name the figure: \_\_\_\_\_
- b. Name the base: \_\_\_\_\_
- c. Name the faces: \_\_\_\_\_  
\_\_\_\_\_
- d. Name the edges: \_\_\_\_\_  
\_\_\_\_\_
- e. Name the vertices: \_\_\_\_\_



2. Name the figure at the right. Then count the number of faces, edges, and vertices.

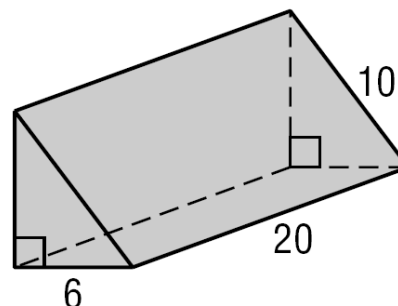
- a. Name: \_\_\_\_\_
- b. # of Faces: \_\_\_\_\_
- c. # of Edges: \_\_\_\_\_
- d. # of Vertices: \_\_\_\_\_



**For #3-6, write the name of the polygon that matches the specified information.**

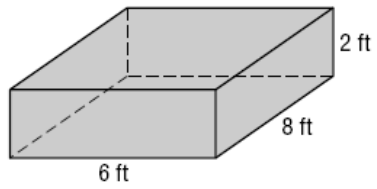
- 3. a pyramid with six faces \_\_\_\_\_
- 4. a prism with ten faces \_\_\_\_\_
- 5. a solid with one base and a total of six faces \_\_\_\_\_
- 6. a solid with two bases and a total of five faces \_\_\_\_\_

7. Draw and label a net for the solid at the right.

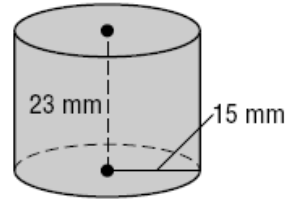


Find the volume of each figure. Show ALL calculations. Round to 2 decimals, if necessary.

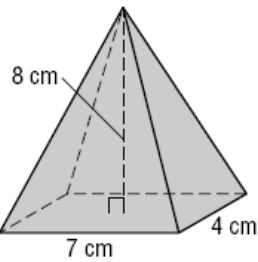
8.



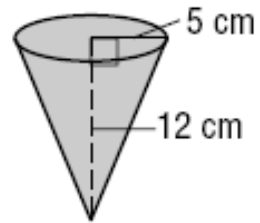
9.



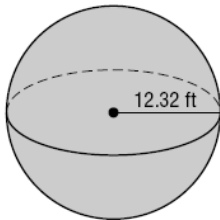
10.



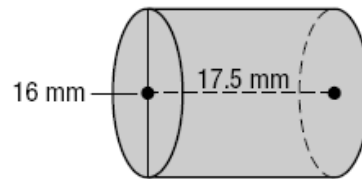
11.



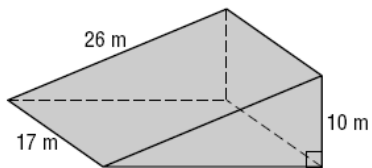
12.



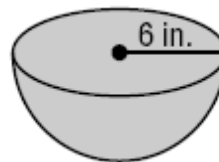
13.



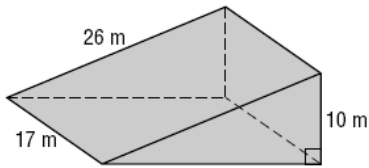
14.



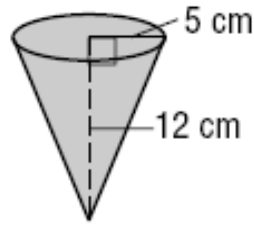
15.



16. Sketch a cross section parallel to the base of the solid. Then find the area of the cross section.



17. Sketch a cross section perpendicular to the base and through the vertex of the solid. Then find the area of the cross section.



18. Draw a square pyramid that has a height of 35 inches and a base with a side length of 27 inches. Then find the volume.

19. The volume of a pyramid is 120 cubic meters, and the area of the base is 50 square meters. Find the height of the pyramid.

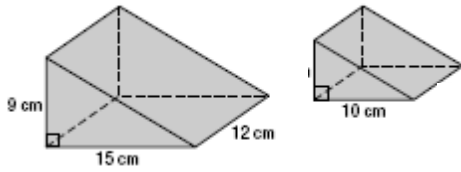
20. The volume of a cone is  $870\pi$  cubic meters. The cone has a base with a radius of 15 meters. Find the height.

21. The volume of a pyramid is 1314 cubic inches. The pyramid's height is 18 inches. Find the area of the base.

22. The volume of a cylinder is  $4864\pi$  cubic centimeters. The radius is 16 centimeters. Find the height.

23. The volume of a pyramid is 2133 cubic meters, and the area of the base is 81 square meters. Find the height of the pyramid.

For 24 - 26, use the similar prisms below.



24. If the height of the larger prism is 12 cm, what is the height of the smaller prism? 25. \_\_\_\_\_

25. If the surface area of the larger prism is  $632.9 \text{ cm}^2$ , what is the surface area of the smaller prism? 26. \_\_\_\_\_

26. If the volume of the smaller prism is  $240 \text{ cm}^3$ , what is the volume of the larger prism? 27. \_\_\_\_\_