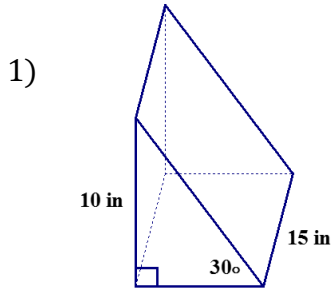


Chapter 11 Volume Study Guide Part 2:

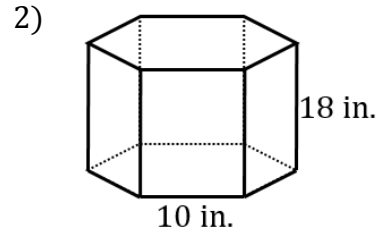
Volume of Prisms, Cylinders, Pyramids, Cones, Spheres and Composite Figures

Directions: Please show ALL work to justify your answer.



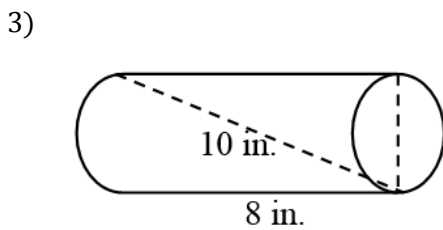
Name the 3-D Solid: _____

Volume: _____



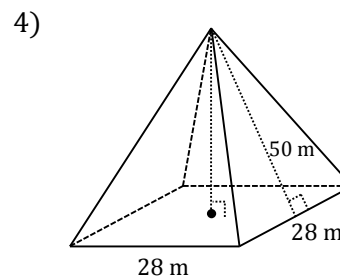
Name the 3-D Solid: _____

Volume: _____



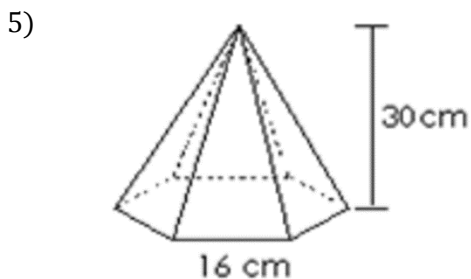
Name the 3-D Solid: _____

Volume: _____



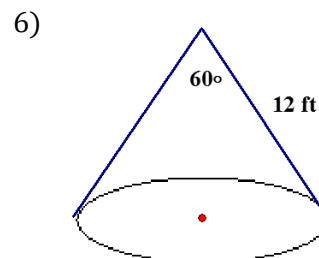
Name the 3-D Solid: _____

Volume: _____



Name the 3-D Solid: _____

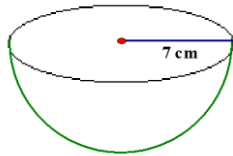
Volume: _____



Name the 3-D Solid: _____

Volume: _____

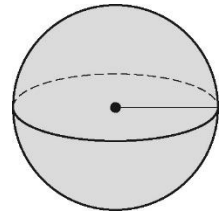
7)



Name the 3-D Solid: _____

Volume: _____

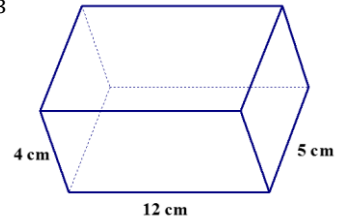
8) Find the volume of a Sphere with a circumference of 16π .



Volume: _____

9) What would happen to the volume of a cone if the height were doubled?

10) What would happen to the volume of the prism below if the length and width were changed by a factor of $\frac{1}{3}$?



11) The volume of a square pyramid is 1280 cm^3 and the area of the base is 256 cm^2 . Find the base edge length, height and slant height of this figure.

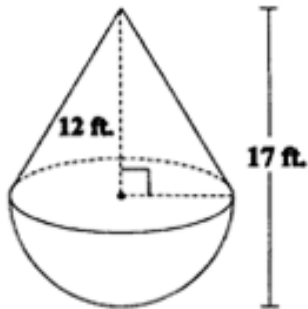
12) The volume of a cylinder is 1573π and the area of the base is 121π . Find the diameter and height of the cylinder.

- 13) Estimate the number of gallons required to fill a cylindrical tank that has a diameter of 40 feet and a height of 35 feet if 1 gallon of water is approximately 0.134 ft^3 . Round your answer to the nearest tenth.

- 14) Lisa needs to store 8 boxes while she is moving. Each box is a cube with edge length 3 feet. A storage facility charges \$0.75 for every cubic foot of storage per month. Find the amount of money Lisa will pay to store her boxes for one month.

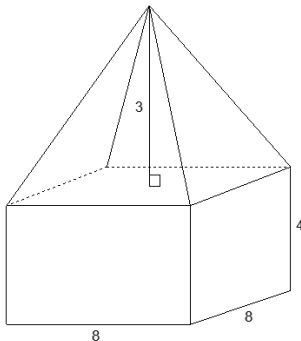
Find the volume of the following composite shapes. Round to the nearest hundredth if necessary.

15)



Volume = _____

16)



Volume = _____