Apprenticeship Math 12 ASSIGNMENT: Volume of Spheres, Cones and Pyramids

Name:	
Date [.]	

Round your answers to the nearest hundredth!

- 1. Find the volume of each object.
 - a) A sphere with a radius of 8.5 cm.







volume = _____

d) A sphere with a diameter of 150 mm. volume = _____

e)



volume = _____

f) A cone with a slant height of 15 cm and a radius volume = _____ of 8 cm.

2. A cone has a radius of 12 mm and a volume of 4071.5 mm³. What is its height?

height = _____

3. Calculate the volume of this prism and pyramid. What would you divide the volume of the prism by to get the volume of the pyramid?



4. What is the volume of the following figure? The height to the peak is 15 ft.



volume = _____

5. Find the volume of the following complex shape.



volume = _____

6. A sphere with a radius of 46 cm is centered inside a sphere with a radius of 76 cm. What is the volume of the space between the two spheres?



volume = _____

- 1. a) 2572.44 cm³ b) 379.61 in³ c) 1615 in³ d) 1 767 145.87 mm³ e) 2666.87 in³ f) 850.42 cm³
- 2. 27.00 mm
- 3. prism: 5376 in³, pyramid: 1792 in³, divide by 3
- 4. 4840 ft³
- 5. 197.92 m³
- 6. 1 431 058.29 cm³