Geometry   Name _____   Hour _____
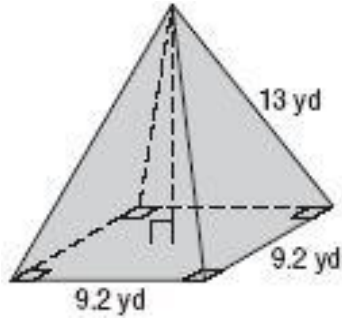
13.2/13.3 Volume of Pyramids/Cones/Spheres

$$\left(V = \frac{1}{3}Bh \text{ and } V = \frac{4}{3}\pi \cdot r^3\right)$$

Find the volume of each pyramid or cone. Round to the nearest hundredth.

1)

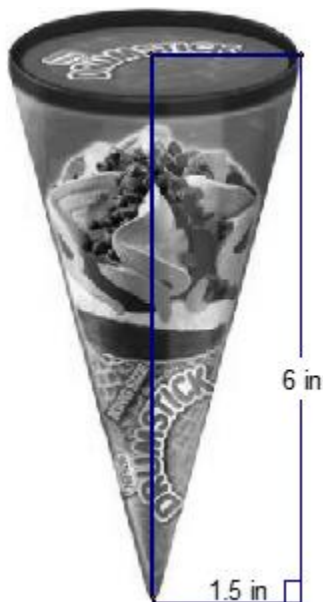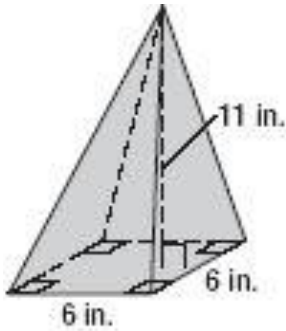13 yd

9.2 yd

9.2 yd

2)

12 mm

52°

3)

6 in

1.5 in

4) This is an oblique pyramid. It's volume is calculated in the same way.

11 in.

6 in.

6 in.

5) A Sno-Kone cup has a diameter of 3 inches and a slant-height of 4 inches. The cone is full of "sno" and there is a hemisphere of "sno" above the paper edge. What is the volume of "sno" in this treat?

6) Find the volume of a basketball if the circumference is 30 inches.

7) **HISTORY** The start of the pyramid age began with King Zoser's pyramid, erected in the 27th century B.C. In its original state, it stood 62 meters high with a rectangular base that measured 140 meters by 118 meters. Find the volume of the original pyramid.