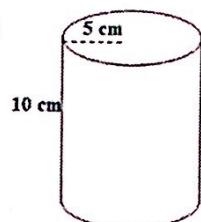


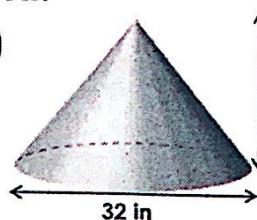
## EXTRA PROBLEMS

○ Find the volume of each. When I OK your answer, move on to the next.

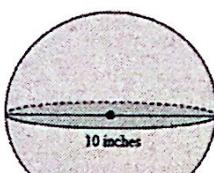
1)



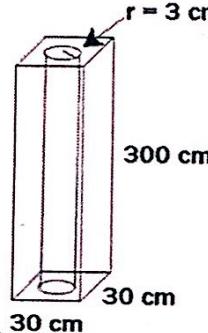
2)



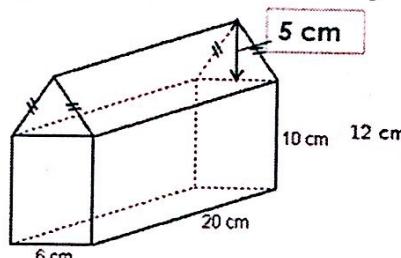
3)



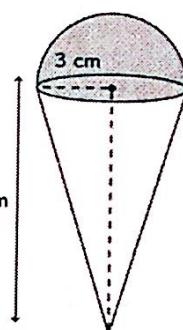
4)



5)



6)



$$1) V \approx 785.4 \text{ cm}^3$$

$$2) V \approx 5897.9 \text{ in}^3$$

$$3) V \approx 523.6 \text{ in}^3$$

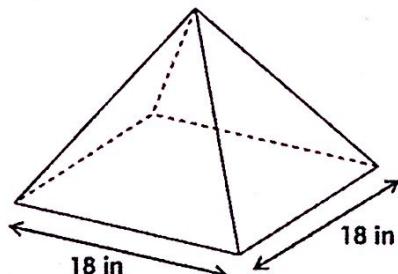
$$4) V \approx 261,517.7 \text{ cm}^3$$

$$5) V = 1500 \text{ cm}^3$$

$$6) V \approx 169.6 \text{ cm}^3$$

## MORE EXTRA PROBLEMS

7) The volume is  $2268 \text{ cm}^3$ . Find the height.



$$V = \frac{1}{3} lwh$$

$$2268 = \frac{1}{3} \cdot 18 \cdot 18 \cdot h$$

$$2268 = 108h$$

$$21 = h$$

**21 in**

8) The circumference of a circle is  $6\pi$  feet. Find the area. Write it as an exact answer.

$$C = 2\pi r$$

$$\frac{6\pi}{2} = \frac{2\pi r}{2}$$

$$3 = r$$

$$A = \pi r^2$$

$$A = \pi \cdot 3^2$$

9) A ball with a radius of **4 cm** is inside a cube. The ball touches all sides of the cube. What is the volume of the empty space inside the cube?



$$V = \text{Cube} - \text{Sphere}$$

$$V = 8 \cdot 8 \cdot 8 - \frac{4}{3} \pi \cdot 4^3$$

$$V \approx 512 - 268.1$$

**$V \approx 243.9 \text{ cm}^3$**