

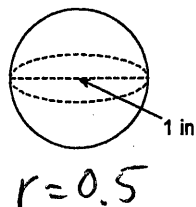
12-6 Volume of Spheres

$$V = \frac{4}{3}\pi r^3$$

Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

Leave your answers in terms of π for answers that contain π .

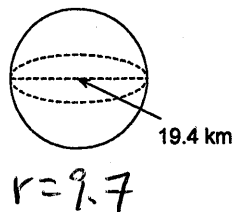
1)



$$V = \frac{4}{3}(0.5)^3\pi$$

$$V = \frac{\pi}{6} \text{ in}^3$$

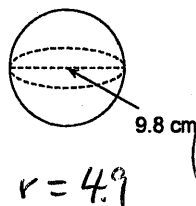
2)



$$V = \frac{4}{3}(9.7)^3\pi$$

$$V = 1216.89\pi \text{ km}^3$$

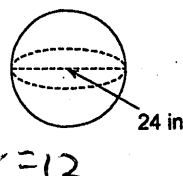
3)



$$V = \frac{4}{3}\pi(4.9)^3$$

$$V = 156.865\pi \text{ cm}^3$$

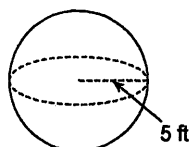
4)



$$V = \frac{4}{3}(12)^3\pi$$

$$V = 2304\pi \text{ in}^3$$

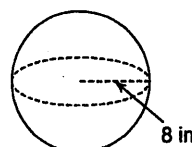
5)



$$V = \frac{4}{3}(5)^3\pi$$

$$\frac{500}{3}\pi \text{ ft}^3$$

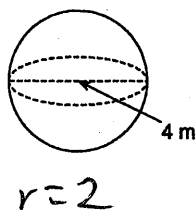
6)



$$V = \frac{4}{3}(8)^3\pi$$

$$\frac{2048}{3}\pi \text{ in}^3$$

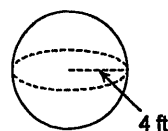
7)



$$V = \frac{4}{3}(2)^3\pi$$

$$\frac{32}{3}\pi \text{ m}^3$$

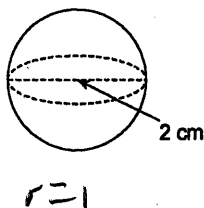
8)



$$V = \frac{4}{3}(4)^3\pi$$

$$V = \frac{256}{3}\pi \text{ ft}^3$$

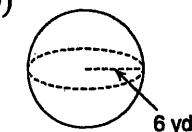
9)



$$V = \frac{4}{3}(1)^3\pi$$

$$V = \frac{4}{3}\pi \text{ cm}^3$$

10)



$$V = \frac{4}{3}(3)^3\pi$$

$$V = 36\pi \text{ yd}^3$$