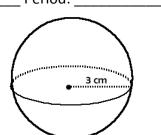
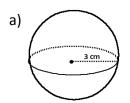
IC10 - SPHERE VOLUME

VOLUME_{SPHERE}
$$=\frac{4}{3}\pi r^3$$
 or $\frac{4\pi r^3}{3}$



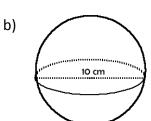
Determine the volume of each sphere.



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

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

$$= \frac{108\pi}{3} = 36\pi \ cm^{3}$$



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

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

$$= \frac{500\pi}{3}cm^{3}$$

How would you find the volume of a hemisphere?

divide the volume of a sphere in half

$$V = \frac{2}{3}\pi r$$