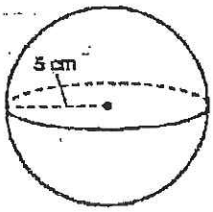
Integrated 1 $V = \frac{4}{3} \cdot \pi \cdot r^3$ Name Key

## Volume of SPHERES

Find the volume of each figure. Show your work.

1.

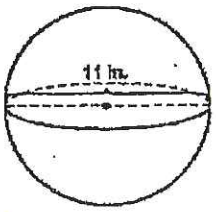



$V = \frac{4}{3} \cdot \pi \cdot (5\text{cm})^3$

$V = 166\frac{2}{3}\pi\ \text{cm}^3$

$V \approx 523.6\ \text{cm}^3$

2.

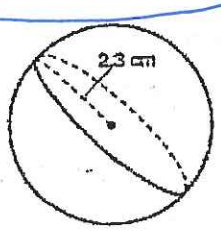



$V = \frac{4}{3} \cdot \pi \cdot (5.5\text{in})^3$

$V = 221.8\bar{3}\pi\ \text{in}^3$

$V \approx 696.9\ \text{in}^3$

3.

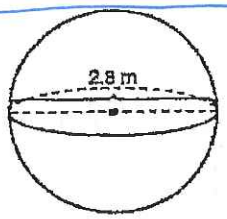



$V = \frac{4}{3} \cdot \pi \cdot (23\text{cm})^3$

$V = 16{,}222.\bar{6}\pi\ \text{cm}^3$

$V \approx 50965\ \text{cm}^3$

4.

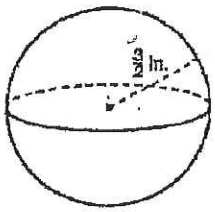



$V = \frac{4}{3} \cdot \pi \cdot (14\text{m})^3$

$V = 3{,}658.\bar{6}\pi\ \text{m}^3$

$V \approx 11{,}494\ \text{m}^3$

5.

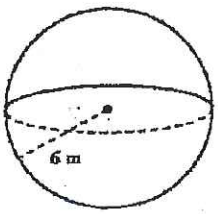



$V = \frac{4}{3} \cdot \pi \cdot (\frac{3}{2}\text{in})^3$

$V = 4.5\pi\ \text{in}^3$

$V \approx 14.1\ \text{in}^3$

6.




$V = \frac{4}{3} \cdot \pi \cdot (6\text{m})^3$

$V = 288\pi\ \text{m}^3$

$V \approx 904.8\ \text{m}^3$