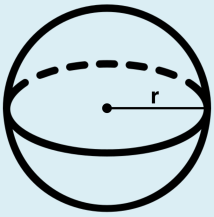
Name: _____

Finding the Volume of a Sphere

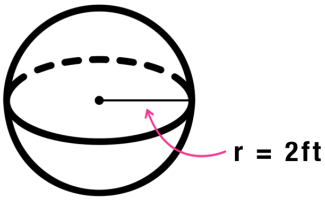
Volume of a Sphere Formula

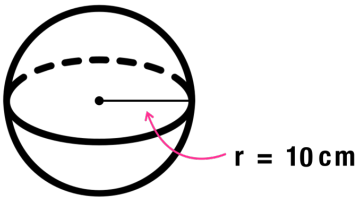
$$V = \frac{4}{3}\pi r^3$$

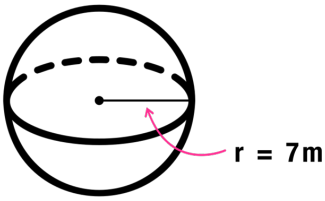


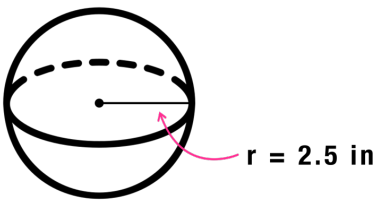
Where ***r*** is the radius of the sphere.

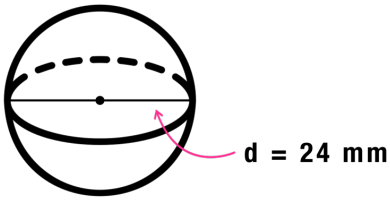
Directions: Find the volume of each sphere and round your answer to the nearest hundredth.

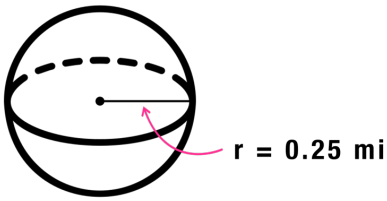
1.) 

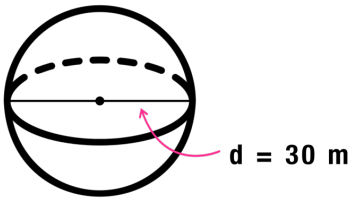
2.) 

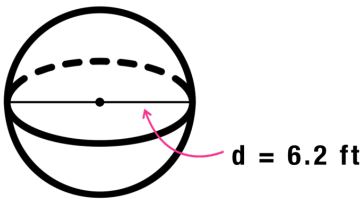
3.) 

4.) 

5.) 

6.) 

7.) 

8.) 

ANSWER KEY

1.) $V = 33.51\ ft^3$
2.) $V = 4,188.79\ cm^3$
3.) $V = 1,436.76\ m^3$
4.) $V = 65.45\ in^3$
5.) $V = 7,238.23\ mm^3$
6.) $V = 0.07\ mi^3$
7.) $V = 14,137.17\ m^3$
8.) $V = 124.79\ ft^3$

key updated 3-24-2025