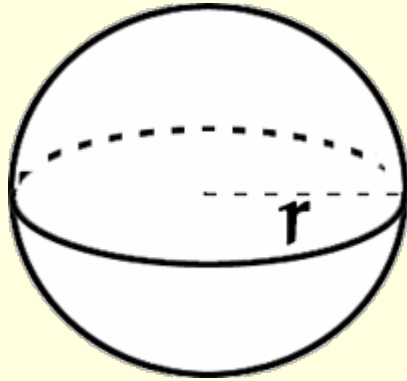


# Volume of Spheres

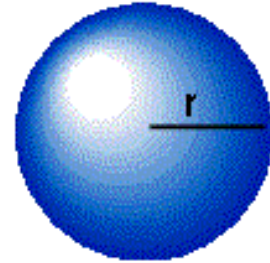
## Lesson 20

A **sphere** is a space figure having all of its points the same distance from its center. The distance from the center to the surface of the sphere is called its **radius**. Any **cross-section** of a sphere is a **circle**.



# *Volume of a Sphere*

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



*Find the volume of each sphere described below.  
Round your answer to the nearest tenth.*

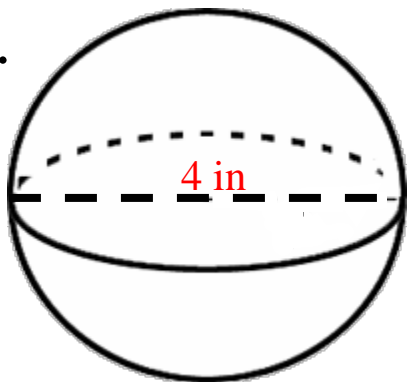
*1. a sphere with a diameter 100 cm long*

*2. a sphere that has a great circle circumference of  
83.92 meters*

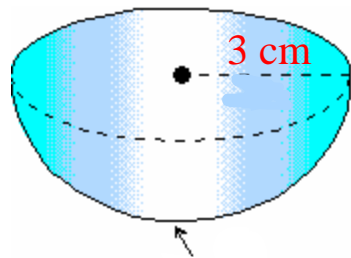
3. *a sphere with a radius 12 inches long*

4. *a sphere that has a great circle of area 70.58 square feet*

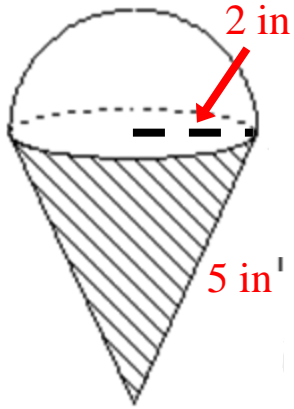
5.



6.

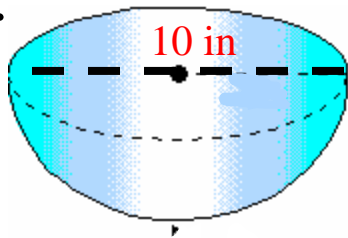


7.





8.



o



# Homework

*Pages 762-763  
(10-17, 20-29)*

