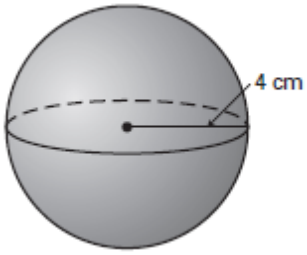
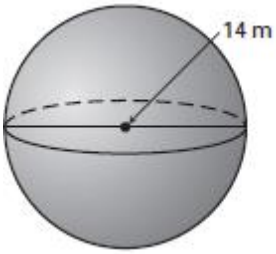
Geometry
11.6 Surface Area and Volume of Spheres HW

1. Find the surface area of the sphere.

a.



b.



2. Find the volume of the two spheres above.

a. b.

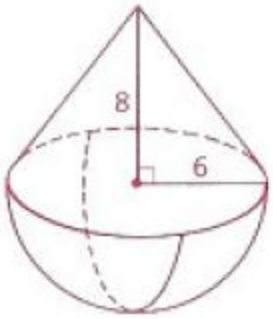
3. Find the radius of the sphere with the given volume.

a. $V = 1436.76 \text{ m}^3$ b. $V = 91.95 \text{ cm}^3$

4. Tennis balls are stored in a cylindrical container with height 21 centimeters and diameter 7 centimeters. Three tennis balls fit in one container.

a. Find the volume of the container.

b. Find the volume of a tennis ball.

c. Find the percentage of the container taken up by the tennis balls.

5. Given the cone and hemisphere as marked, find
   a. The volume of the solid.
   b. The surface area of the solid.