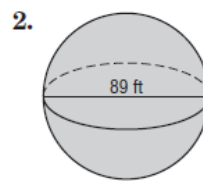
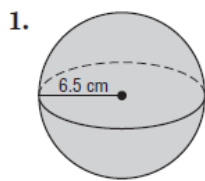


Surface Areas and Volumes of Spheres

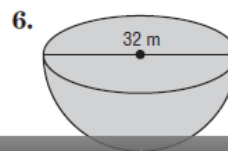
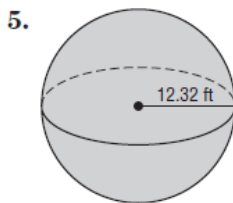
Find the surface area of each sphere or hemisphere. Round to the nearest tenth.



3. hemisphere: radius of great circle = 8.4 in.

4. sphere: area of great circle $\approx 29.8 \text{ m}^2$

Find the volume of each sphere or hemisphere. Round to the nearest tenth.



7. hemisphere: diameter = 18mm

8. sphere: circumference $\approx 36 \text{ yd}$

9. sphere: radius = 12.4 in.