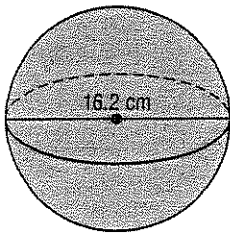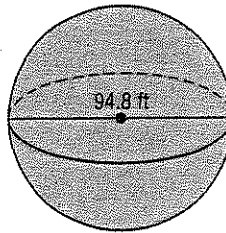**13-3** **Skills Practice**

Volumes of Spheres

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

1. The radius of the sphere is 9 centimeters.

2. The diameter of the sphere is 10 inches.

3. The circumference of the sphere is 26 meters.

4. The radius of the hemisphere is 7 feet.

5. The diameter of the hemisphere is 12 kilometers.

6. The circumference of the hemisphere is 48 yards.
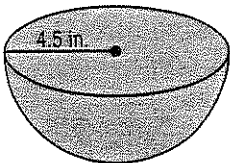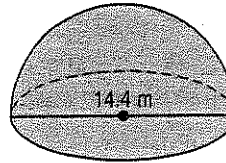
7.

16.2 cm

8.

94.8 ft

9.

4.5 in.

10.

14.4 m

11. A good way to remember something is to explain it to someone else. Suppose that your classmate Loretta knows that the expressions $\frac{4}{3}\pi r^3$ and $4\pi r^2$ are used in finding measurements related to spheres, but can't remember which one is used to find the surface area of a sphere and which one is used to find the volume. How can you help her to remember which is which?