13-3 Skills Practice

Volumes of Spheres

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

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

1. The radius of the sphere is 9 centimeters.

$3,053.6 \text{ cm}^3$

2. The diameter of the sphere is 10 inches.

523.6 in^3

3. The circumference of the sphere is 26 meters.

296.8 m^3

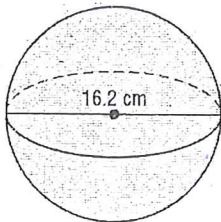4. The radius of the hemisphere is 7 feet.

718.4 ft^3

5. The diameter of the hemisphere is 12 kilometers.

452.4 Km^3
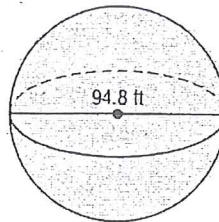
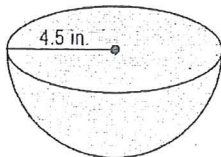6. The circumference of the hemisphere is 48 yards.

933.8 yd^3
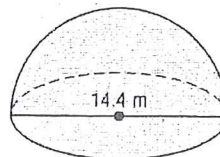
7.

16.2 cm

2226.1 cm^3

8.

94.8 ft

$446,091.2 \text{ ft}^3$

9.

4.5 in.

190.9 in^3

10.

14.4 m

781.7 m^3

Glencoe Geometry

Lesson 13-3