## Lesson 4.8 ~ Volume of Spheres

Name $\qquad$ Period $\qquad$ Date $\qquad$

Find the volume of each sphere. Use 3.14 for $\boldsymbol{\pi}$. Round to the nearest hundredth.
1.

2. $d=18 \mathrm{~cm}$

3. Drake has a beach ball with a diameter close to 12 in. Find the volume of this beach ball.
4. A spherical juice container has a radius of 25 mm . How much juice can the container hold?

Find each missing measure. Use 3.14 for $\boldsymbol{\pi}$.
5. Volume $\approx 1436.03 \mathrm{~m}^{3}$
6. Volume $\approx 7234.56$ in $^{3}$

7. A bowling ball has a volume of 267.947 cubic inches. What is the radius of the bowling ball? Use 3.14 for $\pi$.
8. Geraldo's garden has a rainwater catcher in the shape of a sphere that has a volume of about 33.49 cubic feet. What is the diameter of the sphere? Use 3.14 for $\pi$.
9. A baseball fits snuggly inside a cubical box that is 3 inches on each side.
a. Find the volume of the cubical box.
b. Find the volume of the baseball that fits snuggly inside the box. Use 3.14 for $\pi$.
c. How much empty space remains in the box when the baseball is inside of it?

