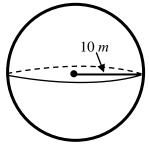
Lesson 4.8 ~ Volume of Spheres

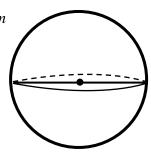
Period Date

Find the volume of each sphere. Use 3.14 for π . Round to the nearest hundredth.

1.



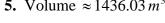
2. $d = 18 \ cm$



- 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?

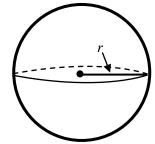
Find each missing measure. Use 3.14 for π .

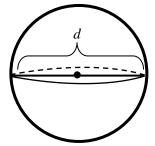
5. Volume $\approx 1436.03 \, m^3$





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 π .
- 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 π .
- **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 π .
 - **c.** How much empty space remains in the box when the baseball is inside of it?