Name

7.

8 ft

LESSON Practice A 10-8 Spheres

Write each formula.

- **1.** volume of a sphere with radius r
- 2. surface area of a sphere with radius r

Find each measurement. Give your answers in terms of π .



6. Margot is thirsty after a 5-km run for charity. The organizers offer the containers of water shown in the figure. Margot wants the one with the greater volume of water. Tell which container Margot should pick.



volume $\frac{256 \pi}{3}$ yd³

8. the surface area of a sphere with

Find the surface area of each sphere. Give your answers in terms of π .



- 9. Find the volume and surface area of the sphere.
- **10.** Find the volume and surface area of the sphere after the radius is multiplied by 3.
- **11.** Describe the effect on the volume and surface area of multiplying the radius of the sphere by 3.
- **12.** Find the volume and surface area of the composite figure. Give your answers in terms of π .







Date Class

