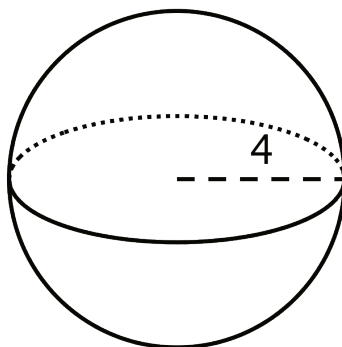# Lesson 20: The Volume of a Sphere

Cool Down: Volumes of Spheres

Recall that the volume of a sphere is given by the formula $V = \frac{4}{3}\pi r^3$.

1. Here is a sphere with radius 4 feet. What is the volume of the sphere? Express your answer in terms of π.

2. A spherical balloon has a diameter of 4 feet. Approximate how many cubic feet of air this balloon holds. Use 3.14 as an approximation for π, and give a numerical answer.