All of our formulas thus far have involved the height and the radius of each shape. In a sphere, the height IS THE SAME AS the radius.

Example 1: Finding the Volume of a Sphere
Find the volume of the sphere. Round your answer to the nearest tenth.

Example 2: Finding the Radius of a Sphere
Find the radius of the sphere.

a) 

Volume = 288\pi \text{ in.}^3

b) 

Volume = 36\pi \text{ m}^3
Example 3: Finding the Volume of a Composite Solid

1. A hemisphere is one-half of a sphere. The top of the silo is a hemisphere with a radius of 12 feet. What is the volume of the silo? Round your answer to the nearest thousand.

2. Find the volume of the composite solid. Round your answer to the nearest tenth.