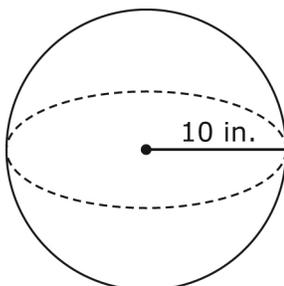


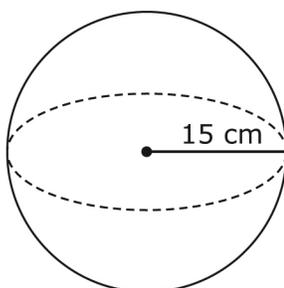
Section 3.4 Extra Practice

1. a) Calculate the volume of the sphere, to the nearest unit.



- b) What is the volume of the sphere in cubic feet?

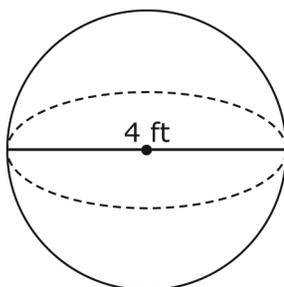
2. a) Calculate the volume of the sphere, to the nearest unit.



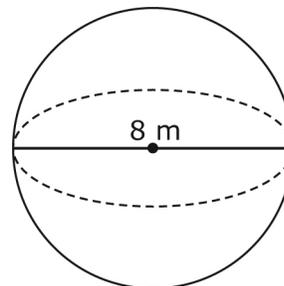
- b) What is the volume of the sphere in cubic metres?

3. Calculate the volume of each sphere, to the nearest unit.

a)



b)



4. A hollow plastic ball has a radius of 3 inches.

- a) Calculate the air capacity of the ball.
 b) Calculate the air capacity of the ball if its diameter is doubled.
 c) Does the air capacity double if the diameter doubles?

5. A globe is filled with water.



- a) Calculate the volume of water needed to fill a globe that has a diameter of 60 mm.
 b) Predict the volume of water needed to fill a globe that has a diameter of 120 mm.
 c) Calculate the volume of water needed to fill a globe that has a diameter of 120 mm. Compare your calculation with your estimate.
 d) How many times greater is the volume of the larger globe than the volume of the smaller globe? Explain why.

