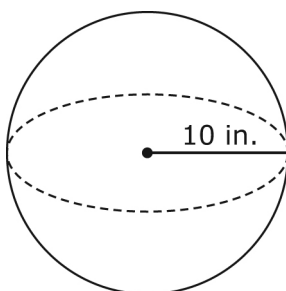


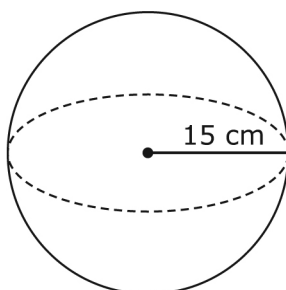
Section 3.4 Extra Practice

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



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

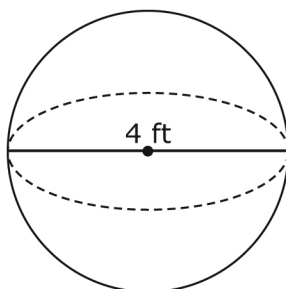
2. a) Calculate the volume of the sphere, to the nearest unit.



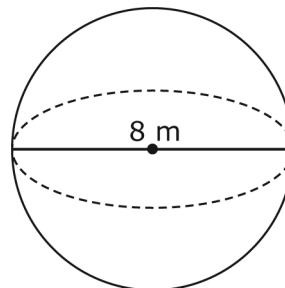
- b) What is the volume of the sphere in cubic metres?

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.

