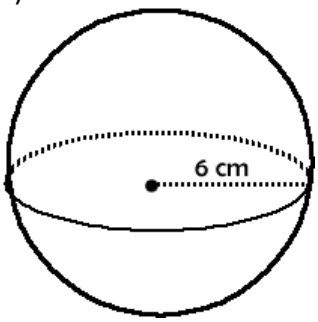
Geometry (G.GMD.3)
Unit Three: Spheres (HW10)

Name: _____
Date: _____ Period: _____

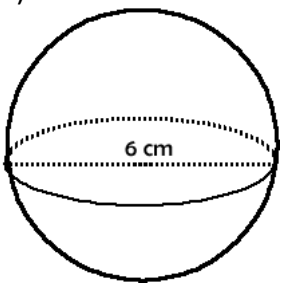
1. Determine the volume of the solid.

a)



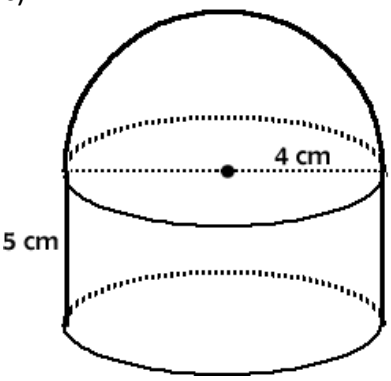
Volume = _____ (E)

b)



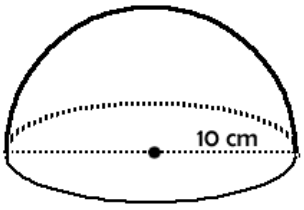
Volume = _____ (E)

c)



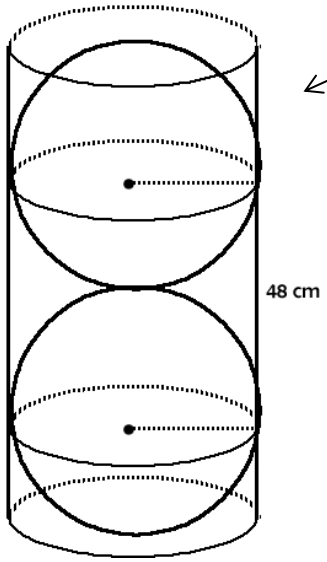
Volume = _____ (E)

d)



Volume = _____ (E)

e)



Two tennis balls fits exactly in the 48 cm tall cylinderical can. What is the volume of air in the can?

Volume = _____ (E)

f) Surface Area of a sphere = $4\pi r^2$. If the surface area of a sphere is 144π, then what is its volume?

g) Surface Area of a sphere = $4\pi r^2$. If the surface area of a sphere is 16π, then what is its volume?