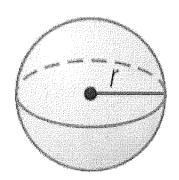
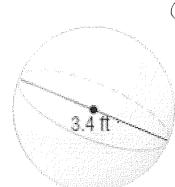
## Basic Surface Area and Volume of Spheres Notes



Find the volume and surface area of the sphere. Round to the nearest tenth.

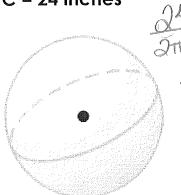




$$V = \frac{4}{3} + (1.7)^3$$

$$V = 20.6 + 3$$

## Example 2: C = 24 inches

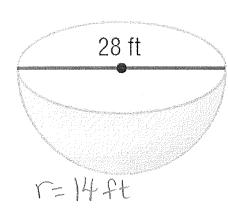


$$SA = 4\pi (3.8)^2$$
  
= 57.76TT  
=  $[181.5 \text{ m}^2]$ 

$$V = \frac{4}{3}\pi (3.8)^3$$
  
=  $239.8 \text{ m}^3$ 

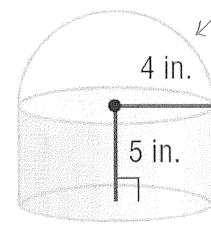
Find the volume and surface area of the solid or composite below. Round to the nearest tenth.

Example 3:



$$SA = \frac{1}{2}(4\pi(14)^2)$$
  
=  $1231.541^2$   
 $V = \frac{1}{2}(\frac{1}{3}\pi(14)^3)$   
=  $410.541^3$ 

Example 4:



$$SA = \frac{1}{2}$$
 sphere + cylinder  
 $= \frac{1}{2}(4\pi(4)^2) + \pi 4^2 + 2\pi \cdot 4 \cdot 5$   
 $= \frac{32\pi}{16\pi} + \frac{16\pi}{16\pi} + \frac{40\pi}{16\pi}$   
 $= \frac{376.5 \text{ in }^2}{16\pi}$   
 $V = \frac{1}{2}$  sphere + cylinder  
 $= \frac{1}{3}(\frac{1}{3}\pi(4)^3) + \pi(4)^2(5)$   
 $= \frac{1}{3}(\frac{1}{3}\pi(4)^3) + \pi(4)^2(5)$   
 $= \frac{1}{3}(\frac{1}{3}\pi(4)^3) + \frac{1}{3}(\frac{1}{3}\pi(4)^3)$