

old Volume of Sphere

(1) A spherical balloon has an initial radius of 5 in. When more air is a dded, the radius becomes 10 in. Explain how the volume changes as the radius changes.



Sphere with radius of Scm is 523.60 cm³. Sphere with radius of 10 cm is 4118.80 cm³.





Let's consider the same rectangle & stack a deplicate of the circle beside it. Find the spacefilled in object. (Find volume.) Volume = Area of Circle * depth Volume = Base * height now there " is "depth" or deepness" (Example 2) Find the volume of the Cylinder. Volume = Base ★ height = πr² ★ h = π(scm)*★ (10cm) ≈ 785.4 cm³ 5cm 10cm<u>Cylin der</u> Võlume = Base * height =(Tr(radus)²) * height Prism Volume = Base + height = (length) (width) * (height)