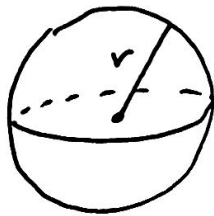
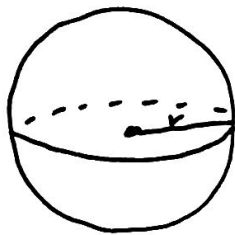


Surface Area and Volume of a Sphere

Sphere is a solid with radius as a measurement.



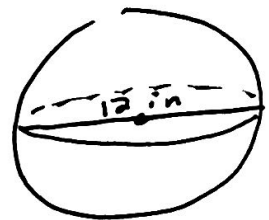
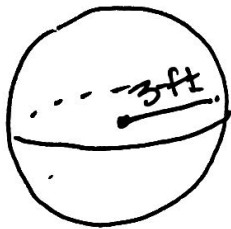
Surface Area is the outside of the sphere
units are squared
(ft², cm², in²)

$$SA = 4\pi r^2$$

$$= 4\pi(3)^2$$

$$= 4(3.14)(3)^2$$

$$= 113.04 \text{ ft}^2$$



$$r = 6 \text{ in}$$

$$V = 4\pi(6)^2$$

$$= 452.16 \text{ in}^2$$

Volume is the inside of the sphere

$$V = \frac{4}{3}\pi r^3$$

$$V = \frac{4}{3}\pi(5)^3$$

$$= \frac{4}{3}(3.14)(5)^3$$

$$= 523.3 \text{ m}^3$$



units are cubed
(ft³, cm³, in³)