Volume of a Hemisphere:

V= $\frac{(4/3) × π × r^{3}}{2}$

Surface Area:

S.A= $\frac{4 π r^{2}}{2}$

Volume of a Sphere:

V= (4/3) × **π** × r3

Surface Area:

 S.A= 4 **π** r2

Example 1: Example 2:

12 ft

34 m

**Find the volume Find the volume**

Raduis =r=34/2=17 m ; π= 3.14 Raduis=r= 12ft ; π= 3.14

V= (4/3) × **π** × 173 V= (4/3) × **π** × 123 ( complete sphere)

V= 6551 **π** m3 V= 7234.6 ft3 (Complete sphere)

V=10569 m3 v= $\frac{7234.6}{2}$ =3617.3 ft3 (Hemisphere or half a circle)

**Find Surface Area Find Surface Area**

S.A= 4 **π** 172 S.A= $\frac{4 π 12^{2}}{2}$

S.A= 1156 **π** m2 S.A= 288$ $**π m2**

S. A= 3629.8 m2 S.A= 904.3 m2

<https://www.youtube.com/watch?v=68Taeqd0ywI>