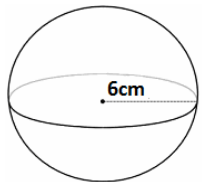


$$\text{Volume} = \frac{4}{3}\pi r^3 \quad \text{Area} = 4\pi r^2$$



Find (a) The volume and (b) The surface area of the sphere shown.

A hemisphere has a radius of 2km. Find its volume.

Find the surface area of a hemisphere with a diameter of 18mm.

A sphere has a volume of $220\pi \text{ cm}^3$. Find the radius **and** diameter of the sphere.

Find the surface area of a sphere that has a **diameter** of 10m.

A solid bouncy ball has a surface area of $300\pi \text{ cm}^2$. Find its (a) Radius and (b) Diameter.

A cylinder has a height of 10cm and the area of the cross section is 25cm^2 . The radius of a sphere is 5cm. Find the difference in their volume.



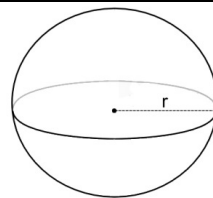
The shape above has a diameter of 7cm. Find its volume.

A sphere has a volume of 112cm^3 . Find its radius to 1 decimal place.

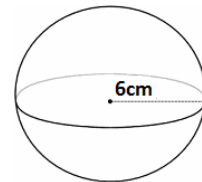
Find the surface area of hemisphere with radius 9mm.

A globe is cut into 4 equal pieces. The globe has a diameter of 12". Find the volume of each piece.

The surface area of a sphere is 4000cm^2 . Find its volume.



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