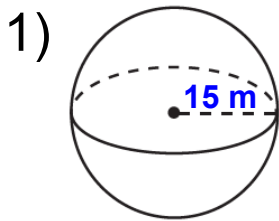


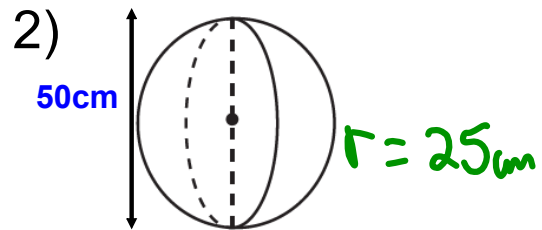
Area of a Sphere

$$A_{\text{sphere}} = 4\pi r^2$$

Find the area of the following:



$$\begin{aligned} A &= 4\pi r^2 \\ &= 4\pi (15)^2 \\ &= 2827.43 \text{ m}^2 \end{aligned}$$



$$\begin{aligned} A &= 4\pi r^2 \\ &= 4\pi (25)^2 \\ &= 7853.98 \text{ cm}^2 \end{aligned}$$



$$\begin{aligned} \textcircled{1} \quad C &= 2\pi r \\ 37.6999 &= \frac{2\pi r}{2\pi} \end{aligned}$$

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

$$\begin{aligned} \textcircled{2} \quad A &= 4\pi r^2 \\ &= 4\pi (6)^2 \\ &= 452.39 \text{ cm}^2 \end{aligned}$$

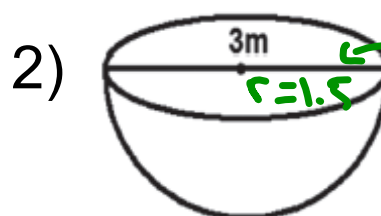
AREA OF HEMI SPHERES $A = 2\pi r^2$

Find the area of the following shapes:



HOLLOW

$$\begin{aligned} A &= 2\pi r^2 \\ &= 2\pi(20)^2 \\ &= 2513.27 \text{ cm}^2 \end{aligned}$$



SOLID

$$\begin{aligned} A &= 2\pi r^2 + \pi r^2 \\ &= 2\pi(1.5)^2 + \pi(1.5)^2 \\ &= 21.2 \text{ m}^2 \end{aligned}$$