

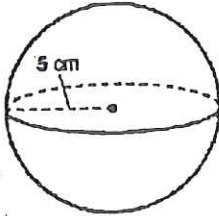
$$S.A. = 4\pi r^2$$

Key

Surface Area - SPHERES

Find the surface area of each figure. Show your work for finding the area of each face and base.

1.

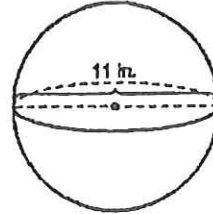


$$4 \cdot \pi (5 \text{ cm})^2$$

$$S.A. = 100\pi \text{ cm}^2$$

$$S.A. \approx 314.2 \text{ cm}^2$$

2.

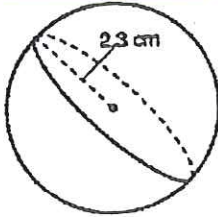


$$4 \cdot \pi (5.5 \text{ in})^2$$

$$S.A. = 121\pi \text{ in}^2$$

$$S.A. \approx 380.1 \text{ in}^2$$

3.

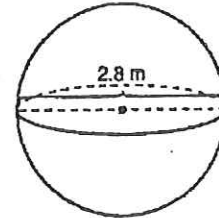


$$4 \cdot \pi \cdot (23 \text{ cm})^2$$

$$S.A. = 2,116\pi \text{ cm}^2$$

$$S.A. \approx 6,647.6 \text{ cm}^2$$

4.

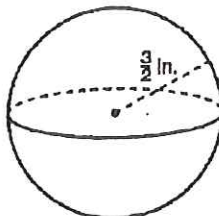


$$4 \cdot \pi \cdot (14 \text{ m})^2$$

$$S.A. = 784\pi \text{ m}^2$$

$$S.A. \approx 2,463 \text{ m}^2$$

5.

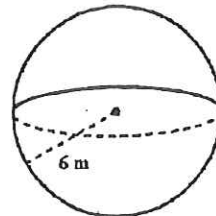


$$4 \cdot \pi \cdot \left(\frac{3}{2} \text{ in}\right)^2$$

$$S.A. = 9\pi \text{ in}^2$$

$$S.A. \approx 28.3 \text{ in}^2$$

6.



$$4 \cdot \pi \cdot (6 \text{ m})^2$$

$$S.A. = 144\pi \text{ m}^2$$

$$S.A. \approx 452.4 \text{ m}^2$$