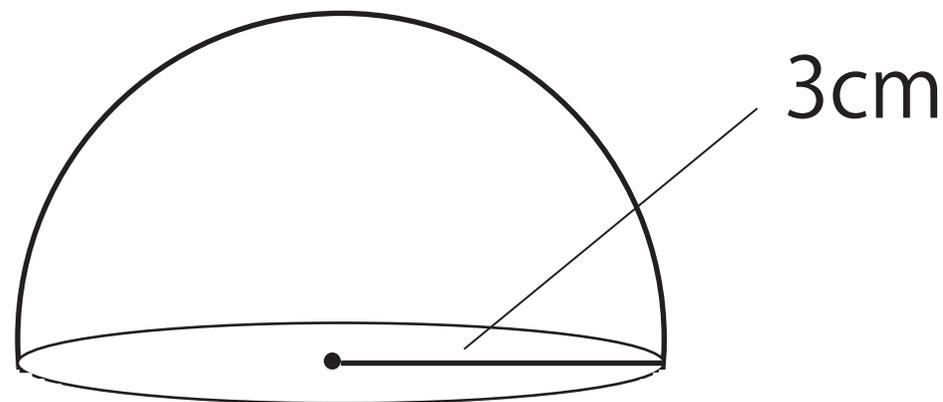
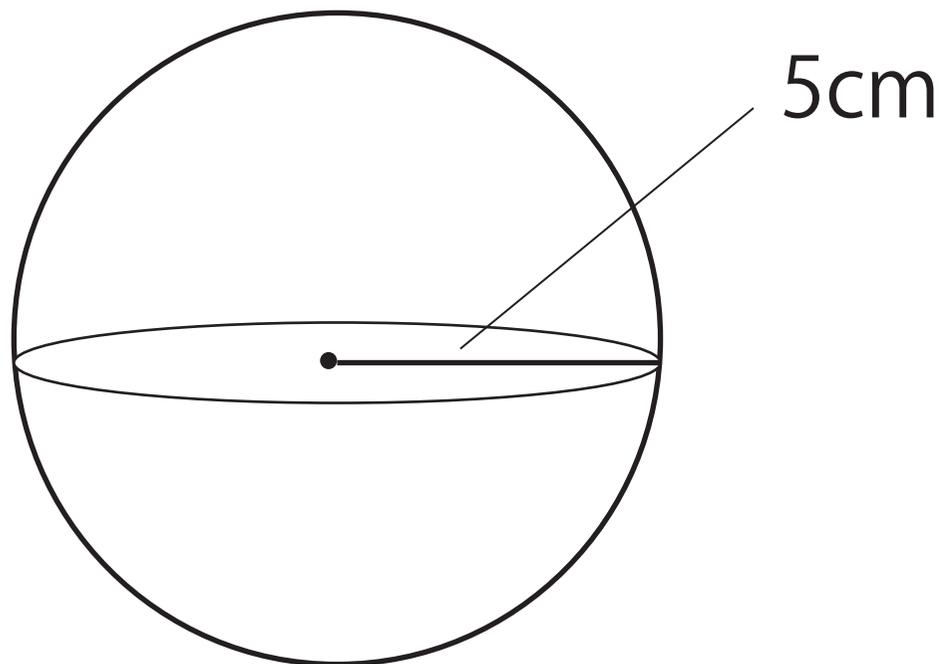


# 球の体積と表面積を求めましょう



表面積は  $4\pi r^2$

体積は  $\frac{4\pi r^3}{3}$  なので

$$\text{表面積} : 4 \times \pi \times 5 \times 5 = 100\pi \text{ cm}^2$$

$$\text{体積} : (4 \times \pi \times 5 \times 5 \times 5) / 3 = \frac{500}{3} \pi \text{ cm}^3$$

$$\text{表面積} : (4 \times \pi \times 3 \times 3) \times \frac{1}{2} = 18\pi \text{ cm}^2$$

+

$$(3 \times 3 \times \pi) = 9\pi \text{ cm}^2$$

答え  $27\pi \text{ cm}^2$

$$\text{体積} : (4 \times \pi \times 3 \times 3 \times 3) / 3 \times \frac{1}{2} = 18\pi \text{ cm}^3$$