



$$H = 10 \text{ cm}$$

$$R = 5 \text{ cm}$$

$$V = S_{\text{ocn}} \cdot H$$

$$V = \pi R^2 \cdot H = 5^2 \cdot 10 \cdot \pi = (250\pi \text{ cm}^3)$$

$$S_{\text{noa}} = 2S_{\text{ocn}} + S_{\text{osa}}$$

$$S_{\text{osa}} = 2\pi R \cdot H = \pi \cdot 10 \cdot 10 = 100\pi \text{ cm}^2$$

$$2S_{\text{ocn}} = 2 \cdot \pi \cdot 5^2 = 50\pi \text{ cm}^2$$

$$S_{\text{noa}} = 100\pi + 50\pi = (150\pi \text{ cm}^2)$$