

A 3D rendering of a cylinder. The top surface is a circle with a diameter of 8 cm, indicated by a horizontal line segment across its center. The height of the cylinder is labeled as 6 cm. The volume of the cylinder is calculated using the formula $\pi r^2 h$, resulting in $96\pi \text{ cm}^3$.

$$96\pi \text{ cm}^3$$

4 cm