

Question: A can of powdered milk has a diameter of 18 cm and a height of 22 cm. What volume of milk does it contain?

Answer:

So the container is cylindrical in shape

∴ Volume of container = $\pi r^2 h$
where r = radius & h = height

$$r = \frac{18}{2} = 9 \text{ cm} ; h = 22 \text{ cm}$$

$$\begin{aligned} \therefore \text{Volume} &= 3.14 \times (9)^2 \times 22 \\ &= 5595.48 \text{ cm}^3 \text{ [Ans]} \end{aligned}$$

