

Correct. The formula for the volume of a cone is  $V = \frac{1}{3}\pi r^2 h$ .

Substitute  $r = 3$  and  $h = 7$  into the formula:

$$V = \frac{1}{3}\pi(3)^2 \cdot 7 = \frac{1}{3}\pi \cdot 9 \cdot 7 = \frac{1}{3}\pi \cdot 63 = 21\pi$$

$$V \approx 21 \cdot \frac{22}{7} = 66 \text{ cubic millimeters}$$