

Correct. Find the volume of each part and then add them together.

Volume of cylinder: $V = \pi r^2 h = \pi(4)^2(7) = \pi(16)(7) \approx 3.14 \cdot 112 = 351.68$

Volume of cone: $V = \frac{1}{3}\pi r^2 h = \frac{1}{3}\pi(4)^2(6) = \frac{1}{3}\pi(16)(6) \approx \frac{3.14 \cdot 96}{3} = 100.48$

Total volume: $351.68 + 100.48 \approx 452$ cubic inches