

Name: \_\_\_\_\_

KEY

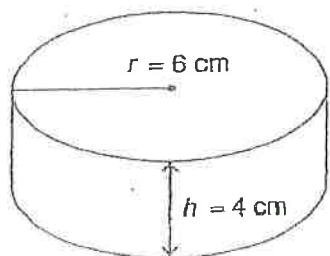
# NOTES

## VOLUME - Cylinders, Cones & Spheres

### CYLINDERS

$$V = \textcircled{B}h \Rightarrow V = \pi r^2 \cdot h$$

1.

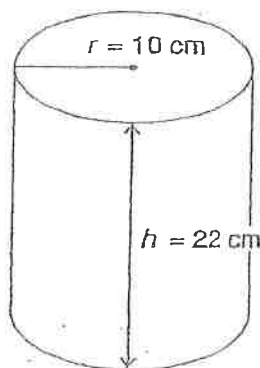


$$V = \pi \cdot 6^2 \cdot 4$$

$$V \approx 452.4 \text{ cm}^3$$

$$V = \underline{452.4} \text{ cm}^3$$

2.



$$V = B \cdot h$$

$$V = \pi \cdot r^2 \cdot h$$

$$V = \pi \cdot 10^2 \cdot 22$$

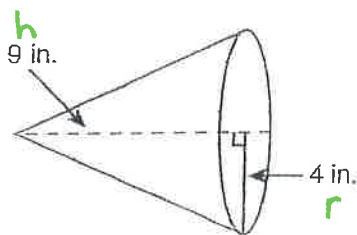
$$V \approx 6911.5 \text{ cm}^3$$

$$V = \underline{6911.5} \text{ cm}^3$$

### CONES

$$V = \frac{1}{3} \textcircled{B}h \Rightarrow V = \frac{1}{3} \cdot \pi r^2 \cdot h$$

3.

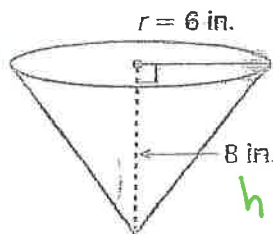


$$V = \frac{1}{3} \cdot \pi \cdot 4^2 \cdot 9$$

$$V \approx 150.8 \text{ in}^3$$

$$V = \underline{150.8} \text{ in}^3$$

4.



$$V = \frac{1}{3} \cdot B \cdot h$$

$$V = \frac{1}{3} \cdot \pi r^2 \cdot h$$

$$V = \frac{1}{3} \cdot \pi \cdot 6^2 \cdot 8$$

$$V \approx 301.6 \text{ in}^3$$

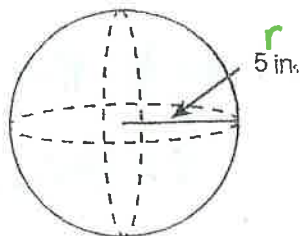
$$V = \underline{301.6} \text{ in}^3$$

# NOTES

## VOLUME - Spheres

$$V = \frac{4}{3} \pi r^3$$

5.

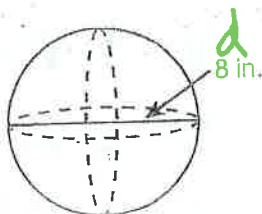


$$V = \frac{4}{3} \cdot \pi \cdot 5^3$$

$$V \approx 523.6 \text{ in}^3$$

$$V = \underline{523.6} \text{ in}^3$$

6.



$$r = 4 \text{ in}$$

$$V = \frac{4}{3} \pi r^3$$

$$V = \frac{4}{3} \cdot \pi \cdot 4^3$$

$$V \approx 268.1 \text{ in}^3$$

$$V = \underline{268.1} \text{ in}^3$$