

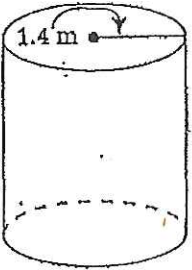
Integrated 1

Name: Key

Volume of Cylinders: Evaluate the Volume of each cylinder. Show all of your work.

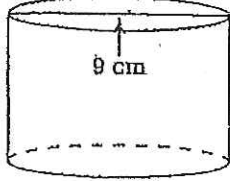
Formula:

$$V_{cy} = \pi r^2 h$$

1)   $V_{cy} = \pi (1.4m)^2 \cdot 3m$

$$V_{cy} = 5.88 \pi m^3$$

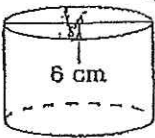
$$V_{cy} = 18.5 m^3$$

2) 

$$V_{cy} = \pi (4.5cm)^2 \cdot 6cm$$

$$V_{cy} = 121.5 \pi cm^3$$

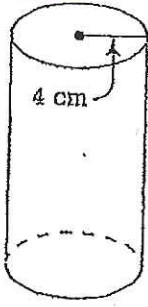
$$V_{cy} = 381.7 cm^3$$

3) 

$$V_{cy} = \pi (3cm)^2 \cdot 4cm$$

$$V_{cy} = 36 \pi cm^3$$

$$V_{cy} = 113.1 cm^3$$

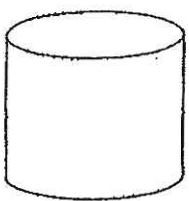
4) 

$$V_{cy} = \pi (4cm)^2 \cdot 14cm$$

$$V_{cy} = 224 \pi cm^3$$

$$V_{cy} = 703.7 cm^3$$

5) Diameter = 22 cm

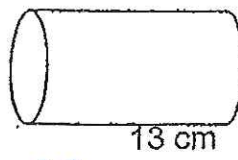


$$V_{cy} = \pi (11cm)^2 \cdot 35cm \quad r = 4cm$$

$$V_{cy} = 4,235 \pi cm^3$$

$$V_{cy} = 13,304.6 cm^3$$

6)



$$V_{cy} = \pi (4cm)^2 \cdot 13cm$$

$$V_{cy} = 208 \pi cm^3$$

$$653.5 cm^3$$

