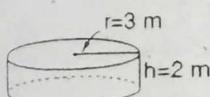


Volume of a Cylinder

To find the volume of a cylinder, use the formula **Volume = Base • height**, where **B** is the area of the base and **h** is the height.



Step #1 Find the Area of the Base

$$B = \pi r^2$$

$$B = 3.14 \cdot 3 \text{ m}^2$$

$$B = 28.26 \text{ m}^2$$

Step #2 Find the Volume

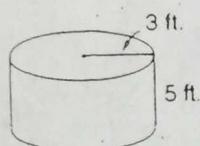
$$\text{Volume} = \text{Base} \cdot \text{height}$$

$$\text{Volume} = 28.26 \text{ m}^2 \cdot 2 \text{ m}$$

$$\text{Volume} = 56.52 \text{ m}^3$$

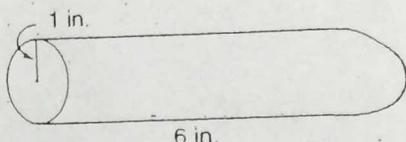
Find the volume of each cylinder. Use the formula $V = B \cdot h$. Write your answer in terms of π . Round your answers to the nearest hundredth.

A.



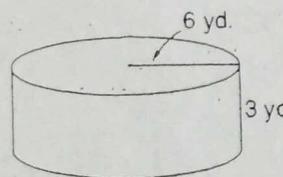
$$V = \underline{\hspace{2cm}}$$

B.



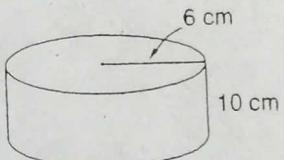
$$V = \underline{\hspace{2cm}}$$

C.



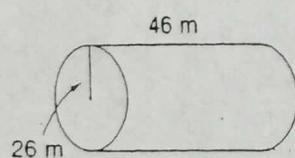
$$V = \underline{\hspace{2cm}}$$

D.



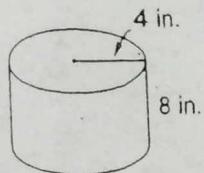
$$V = \underline{\hspace{2cm}}$$

E.



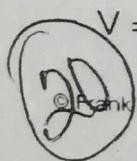
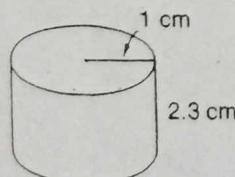
$$V = \underline{\hspace{2cm}}$$

F.

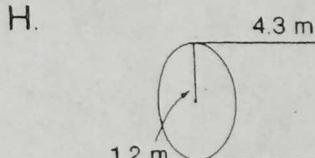


$$V = \underline{\hspace{2cm}}$$

G.



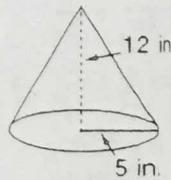
$$V = \underline{\hspace{2cm}}$$



$$V = \underline{\hspace{2cm}}$$

Volume of a Cone

To find the volume of a cone, use the formula $\text{Volume} = \frac{1}{3} \cdot \text{Base} \cdot \text{height}$, where B is the area of the base and h is the height of the cone.



Step #1 Find the Area of the Base

$$B = \pi \cdot r^2$$

$$B = 3.14 \cdot 5 \text{ in.} \cdot 5 \text{ in.}$$

$$B = 3.14 \cdot 25 \text{ in.}^2$$

$$B = 78.5 \text{ in.}^2$$

Step #2 Find the Volume

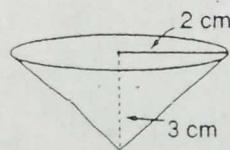
$$V = \frac{1}{3} \cdot \text{Base} \cdot \text{height}$$

$$V = \frac{1}{3} \cdot 78.5 \text{ in.}^2 \cdot 12 \text{ in.}$$

$$V = 314 \text{ in.}^3$$

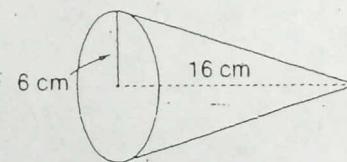
Find the volume of each cone. Use the formula $V = B \cdot h$. Write your answer in terms of π . Round your answers to the nearest hundredth.

A.



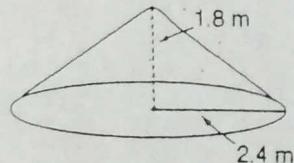
$$V = \underline{\hspace{2cm}}$$

B.



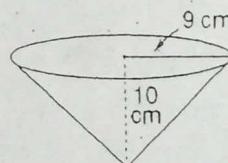
$$V = \underline{\hspace{2cm}}$$

C.



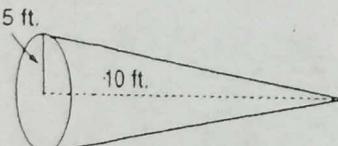
$$V = \underline{\hspace{2cm}}$$

D.



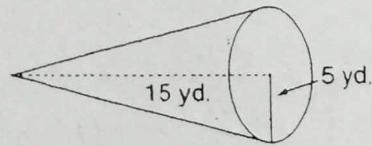
$$V = \underline{\hspace{2cm}}$$

E.



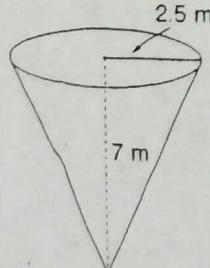
$$V = \underline{\hspace{2cm}}$$

F.



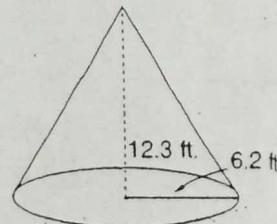
$$V = \underline{\hspace{2cm}}$$

G.



$$V = \underline{\hspace{2cm}}$$

H.



$$V = \underline{\hspace{2cm}}$$