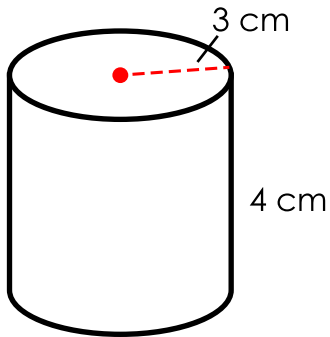


Name: _____

Volume of a Cylinder



A cylinder has a circular base. Use $A = \pi r^2$ to find the area of the base.

$$A \approx 3.14 \times 3^2$$

$$A \approx 3.14 \times 9$$

$$A \approx 28.26 \text{ cm}^2$$

The volume of the cylinder is equal to its base area times its height.

$$V \approx 28.26 \text{ cm}^2 \times 4 \text{ cm}$$

$$V \approx 113.04 \text{ cm}^3$$

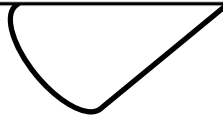
The formula for finding the volume of a cylinder can be expressed as:

$$\text{Volume} = \pi \times \text{radius squared} \times \text{height}$$



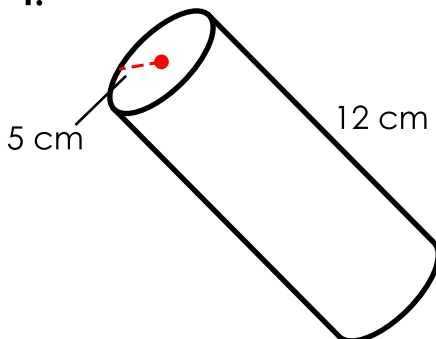
Preview

Please log in to download the printable version of this worksheet.

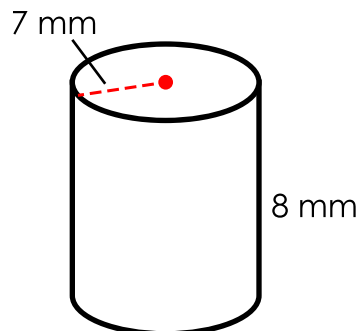


3 cm

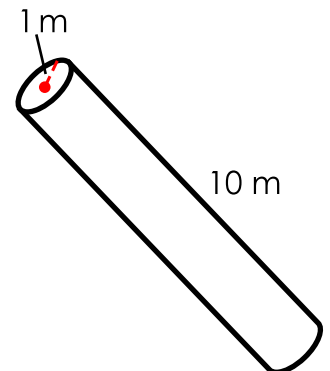
4.



5.

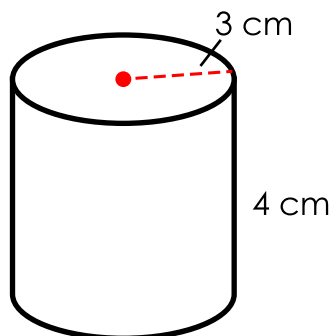


6.



ANSWER KEY

Volume of a Cylinder



A cylinder has a circular base. Use $A = \pi r^2$ to find the area of the base.

$$A \approx 3.14 \times 3^2$$

$$A \approx 3.14 \times 9$$

$$A \approx 28.26 \text{ cm}^2$$

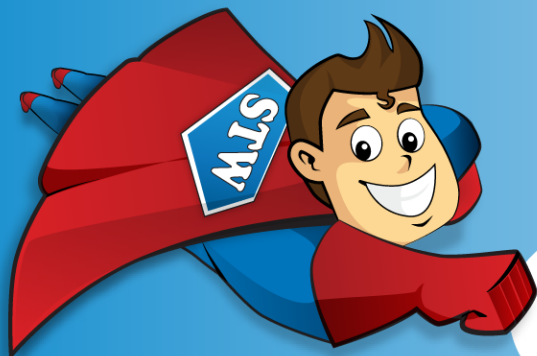
The volume of the cylinder is equal to its base area times its height.

$$V \approx 28.26 \text{ cm}^2 \times 4 \text{ cm}$$

$$V \approx 113.04 \text{ cm}^3$$

The formula for finding the volume of a cylinder can be expressed as:

$$\text{Volume} = \pi \times \text{radius squared} \times \text{height}$$

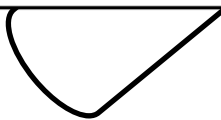


Preview

Please log in to download the printable version of this worksheet.



471 mm³

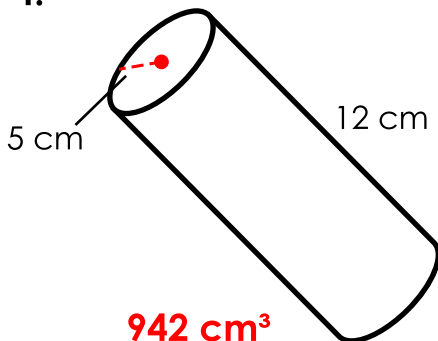


169.6 m³

3 cm

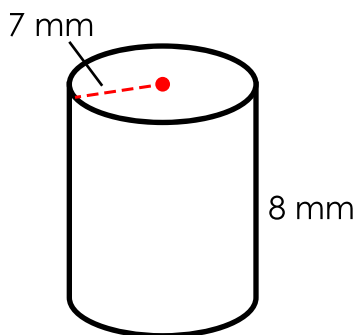
254.3 cm³

4.



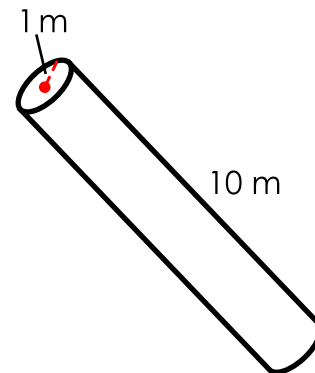
942 cm³

5.



1,230.9 mm³

6.



31.4 m³