

Maths

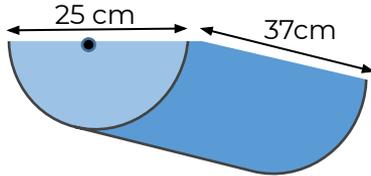
Volume of a cylinder problems

Miss Parnham

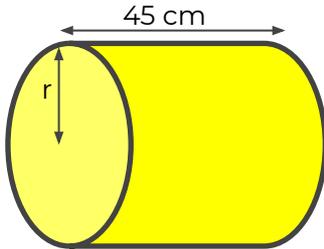


Volume of a cylinder problems

1. Find the volume of this shape to 3 significant figures.



2. The cylinder has a volume of 6927 cm^3 and length of 45 cm. Find the radius to the nearest whole number.



3. An oil drum in the shape of cylinder has a diameter of 60 cm and a height of 110 cm.

- What is the volume of the oil drum to 3 significant figures?
- How much oil, in litres, will the drum hold when it is completely full, to 3 significant figures?
- 70 litres are removed from the drum. How high does is the oil level in the tank now?

$$1 \text{ litre} = 1000 \text{ cm}^3$$

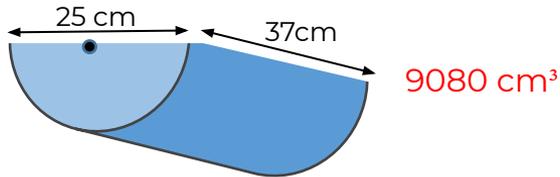


Answers

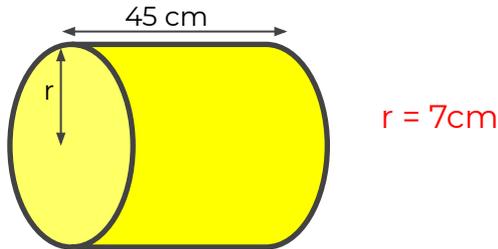


Volume of a cylinder problems

1. Find the volume of this shape to 3 significant figures.



2. The cylinder has a volume of 6927 cm³ and length of 45 cm. Find the radius to the nearest whole number.



3. An oil drum in the shape of cylinder has a diameter of 60 cm and a height of 110 cm.

- What is the volume of the oil drum to 3 significant figures? 311000 cm³
- How much oil, in litres, will the drum hold when it is completely full, to 3 significant figures? 311 litres
- 70 litres are removed from the drum. How high does is the oil level in the tank now? 85 cm

$$1 \text{ litre} = 1000 \text{ cm}^3$$

