

Measures problem-solving and review

MODULE 5 · MEASURES — LENGTH, AREA, VOLUME, MASS AND CAPACITY

MEASURES

Bring measures together: **convert units, then choose perimeter, area or volume** to fit the problem.

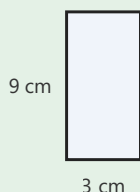
→ Always check: am I asked for a length, an area or a volume?

HOW TO ANSWER TODAY

- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: $(\text{length} + \text{width}) \times 2$.
 $12 \text{ m by } 8 \text{ m} \rightarrow (12 + 8) \times 2 = 40 \text{ m}$
- **Volume.** Volume = length $\times$ width $\times$ height. Answer in cubic units (cm^3 , m^3).
 $5 \times 4 \times 3 = 60 \text{ cm}^3$
- **Area.** Area = length $\times$ width. Write the answer in square units (cm^2 , m^2).
 $5 \text{ m} \times 3 \text{ m} \rightarrow 15 \text{ m}^2$

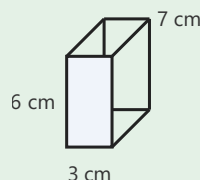
WARM-UP

1



5th class are planning a rectangular flowerbed in the school garden. The flowerbed measures **3 cm** by **9 cm** on their scale drawing. What is the perimeter of the rectangle on the drawing?

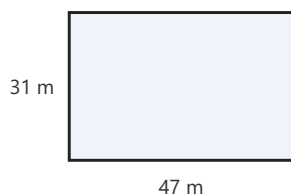
2



Cian is making a small wooden block for the 5th class corridor display. The block is a cuboid measuring **3 cm** long, **7 cm** wide and **6 cm** high. What is its volume?

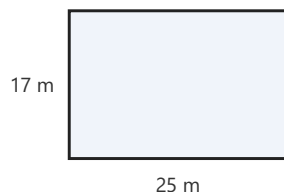
PRACTICE

1



The caretaker is marking out a rectangular junior GAA pitch on the school field for 5th class training. The pitch measures **47 m** along one side and **31 m** along the other. What length of rope is needed to mark all the way around the perimeter?

2



5th class are marking out a rectangular running track on the school field for sports day. The track measures **25 m** by **17 m**. What is the area inside the track?