

Solving real measurement problems

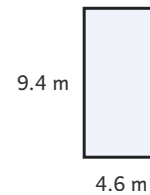
MODULE 4 · MEASURES — LENGTH, MASS, CAPACITY, AREA, VOLUME MEASURES

HOW TO ANSWER TODAY

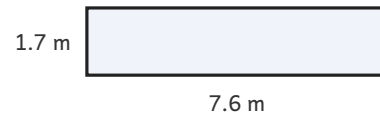
- **Area.** Area = length $\times$ width. Write the answer in square units (cm^2 , m^2).
- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: $(\text{length} + \text{width}) \times 2$.
 $12 \text{ m by } 8 \text{ m} \rightarrow (12 + 8) \times 2 = 40 \text{ m}$
- **Volume.** Volume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

★ STRETCH PROBLEMS

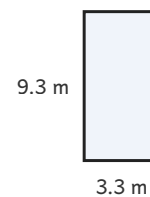
- 1 Aoife helps mark out a rectangular vegetable bed in the school garden for spring planting. The bed measures **4.6 m** by **9.4 m**. What is the area of the bed?



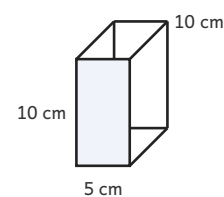
- 2 Saoirse helps paint a rectangular cloth backdrop for the school play. The backdrop measures **7.6 m** by **1.7 m**. What is its perimeter?



- 3 5th class are planning a new rectangular flowerbed in the school garden. The flowerbed will measure **3.3 m** by **9.3 m**. What length of timber edging do they need to go all the way around it?



- 4 Saoirse is wrapping a gift box at the after-school crafts club. The box is a cuboid that measures **5 cm** long, **10 cm** wide and **10 cm** high. What is the volume of the box?



- 5 5th class are marking out a rectangular running track on the school field for Active Week. The rectangle measures **11 m** by **45 m**. What is the perimeter of the track?

