

Measures problem-solving and review

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

MEASURES

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).
 $5 \times 4 \times 3 = 60 \text{ cm}^3$
- **Read a ruler.** Each big mark = 1 cm = 10 mm. Each little mark = 1 mm.
 $3 \text{ cm} + 7 \text{ mm} = 37 \text{ mm} = 3.7 \text{ cm}$

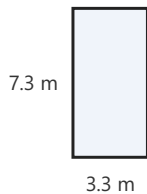
★ STRETCH PROBLEMS

1



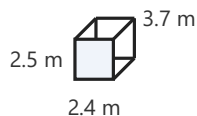
Mr Byrne is marking out a small soccer pitch on the school field for 5th class training. The pitch measures **8.9 m** long and **3.9 m** wide. What length of line does he need to mark around the whole perimeter?

2



5th class are planning a new rectangular flowerbed in the school garden. It measures **3.3 m** by **7.3 m**, and they want to put a low wooden border all the way around it. What length of border do they need in total?

3



The caretaker is delivering a new storage container to keep GAA gear beside the wall-ball court. The container is a cuboid **2.4 m** long, **3.7 m** wide and **2.5 m** high. What is the volume of space inside it?

4

On the 5th class nature walk through the local park, Cian finds a small oak leaf and measures it against his ruler. The tip of the leaf sits **14 cm** and **6 mm** from the start of the ruler. What is the length of the leaf in cm?

5

5th class at St Brigid's measured the total length of ribbon left on the spools in the classroom craft store and got **7628 cm** in total. The teacher wants the answer written in kilometres for the stocktake sheet. How many kilometres is **7628 cm**?

Convert 7628 cm to km.