

Renaming capacity (l ↔ ml); reading a jug scale

MODULE 4 · MEASURES — LENGTH, WEIGHT AND CAPACITY MEASURES

HOW TO ANSWER TODAY

- **Read a ruler.** Each big mark = 1 cm = 10 mm. Each little mark = 1 mm.
 $3\text{ cm} + 7\text{ mm} = 37\text{ mm} = 3.7\text{ cm}$
- **Convert units.** To a SMALLER unit → multiply. To a BIGGER unit → divide. Common factors:
 $\text{cm} \leftrightarrow \text{mm} \times 10$, $\text{m} \leftrightarrow \text{cm} \times 100$, $\text{km} \leftrightarrow \text{m} \times 1,000$, $\text{kg} \leftrightarrow \text{g} \times 1,000$, $\text{l} \leftrightarrow \text{ml} \times 1,000$.
 $250\text{ cm} \rightarrow \text{m}: \div 100 = 2.5\text{ m}$ · $3.5\text{ kg} \rightarrow \text{g}: \times 1,000 = 3,500\text{ g}$

★ STRETCH PROBLEMS

- 1 Aoife measures a strip of fabric for the school summer fair bunting. On her ruler the strip reaches **28 cm** and **6 mm** from the start. What is this reading in cm?
- 2 Oisín measures the width of the new class crest for the Gaelic football jersey with his ruler. The edge of the crest reaches **30 cm** and **3 mm** along the ruler. What is the reading in cm?
- 3 Cian measures the width of a homework chart on the class noticeboard and finds it is **27 cm** across. He wants to write the width in millimetres on the label. How many millimetres is that?
- 4 On the school nature walk, Oisín finds a long leaf and measures it against his ruler. The tip of the leaf sits **25 cm** and **5 mm** from the start of the ruler. What is the length of the leaf in cm?
- 5 Oisín measures the length of his cheese sandwich with a ruler during lunch. The end of the sandwich sits **14 cm** and **8 mm** along the ruler. What is the length of the sandwich in cm?

● INVESTIGATE

How much water in a day?

Estimate how much water **you** use in one school day (drinking, washing hands, lunch). Record each amount in ml or l, then rename so you can **add them all**. About how many full 1-litre jugs is that? What would change your total the most?
