

Capacity – estimate and measure in litres and millilitres

MODULE 4 · MEASURES – LENGTH, WEIGHT AND CAPACITY MEASURES

HOW TO ANSWER TODAY

- **Convert units.** To a SMALLER unit → multiply. To a BIGGER unit → divide. Common factors:
 $\text{cm} \leftrightarrow \text{mm} \times 10$, $\text{m} \leftrightarrow \text{cm} \times 100$, $\text{km} \leftrightarrow \text{m} \times 1,000$, $\text{kg} \leftrightarrow \text{g} \times 1,000$, $\text{l} \leftrightarrow \text{ml} \times 1,000$.

$$250 \text{ cm} \rightarrow \text{m: } \div 100 = 2.5 \text{ m} \cdot 3.5 \text{ kg} \rightarrow \text{g: } \times 1,000 = 3,500 \text{ g}$$

★ STRETCH PROBLEMS

- 1 Before going out to the yard, Cian helps the caretaker weigh a sack of sand for the long-jump pit. The sack weighs **48 kg**, but the order form needs the weight written in grams. How many grams is **48 kg**?
- 2 Mr Ó Briain fills the art-room paint barrel with **14 l** of poster paint for the 3rd and 4th class mural project. He needs to share it into small bottles measured in millilitres. How many ml of paint are in the barrel?
- 3 Oisín collects a horse chestnut leaf for the autumn art display in 4th class. He measures it and finds it is **14 cm** long. How many millimetres long is the leaf?
- 4 Oisín cycles one lap of the school sponsored cycle path, which measures **31 m**. How long is one lap in centimetres?
- 5 On sports day, 4th class are marking out the lanes for a **45 m** sprint on the school pitch. The teacher asks them to write the distance in centimetres for the noticeboard chart. How many centimetres is **45 m**?

● INVESTIGATE

How much do everyday things hold?

Choose five containers you can find at home or in school (a cup, a bottle, a bowl, a spoon...). Estimate each capacity in **millilitres** or **litres**, then measure if you can. Which estimate was closest? Which result surprised you most?
