

Reading a measuring jug

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:
 $\text{cm} \leftrightarrow \text{mm} \times 10$, $\text{m} \leftrightarrow \text{cm} \times 100$, $\text{km} \leftrightarrow \text{m} \times 1,000$, $\text{kg} \leftrightarrow \text{g} \times 1,000$, $\text{l} \leftrightarrow \text{ml} \times 1,000$.
 $250\text{ cm} \rightarrow \text{m}: \div 100 = 2.5\text{ m}$ · $3.5\text{ kg} \rightarrow \text{g}: \times 1,000 = 3,500\text{ g}$

WARM-UP

- 1 Tadhg is designing a mosaic tile for the school library wall. He measures one tile with his ruler and the edge reaches **4 cm** and **9 mm** from the start. What is the reading in mm?

A ruler reading sits 4 cm and 9 mm from the start of the ruler. What is the reading in mm?
- 2 Aoife has **6 m** of green ribbon to decorate the class door for Seachtain na Gaeilge. She wants to know the length in centimetres so she can plan her border. How many centimetres is **6 m**?

Convert 6 m to cm.

PRACTICE

- 1 Cian is making a robot from cereal boxes for his junk-modelling project. He measures one of the cardboard strips with his ruler and the end of the strip sits at **12 cm** and **4 mm**. What is the length of the strip in cm?

A ruler reading sits 12 cm and 4 mm from the start of the ruler. What is the reading in cm?
- 2 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**?

Convert 48 kg to g.

CHALLENGE

- 1 Oisín is building a kite at the after-school crafts club. He measures the tail of his kite along a ruler and the end of the tail sits **14 cm** and **6 mm** from the start. What is the length of the tail in cm?
- 2 Cara's class is tracking how far a swallow flies between visits to the bird-feeder. Over the spring, the swallow's flight path adds up to **88 km**. How many centimetres is that?

Convert 88 km to cm.