

Reading weighing scales

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

- At the sleepover, Cian uses his ruler to measure the length of a chocolate biscuit from the snack tray. The reading sits at **3 cm** and **8 mm** from the start of the ruler. What is the reading in mm?
 A ruler reading sits 3 cm and 8 mm from the start of the ruler. What is the reading in mm?
- Oisín is building a kite at the after-school crafts club. He measures a **9 m** roll of ribbon for the kite's tail. How long is the ribbon in centimetres?
 Convert 9 m to cm.

PRACTICE

- Tadhg is measuring strips of paper for the papier-mâché masks in the school play. He lays a strip flat against the ruler and it reaches **5 cm** and **4 mm** from the start. What is the length of the strip in cm?
 A ruler reading sits 5 cm and 4 mm from the start of the ruler. What is the reading in cm?
- 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?
 Convert 14 l to ml.

CHALLENGE

- Tadhg is making a homemade Snakes and Ladders board for the wet-day box in 4th class. He marks the side of one square on the board, then measures along his ruler from the start to the pencil mark. The reading sits **14 cm** and **8 mm** from the start of the ruler. What is the reading in cm?
- Cian's family drove **60 km** from Cork to visit his cousins in Waterford. He wants to write the distance in centimetres for his maths copy. How many cm is **60 km** ?
 Convert 60 km to cm.