

Renaming weight (kg ↔ g); reading scales

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: $\text{cm} \leftrightarrow \text{mm} \times 10$, $\text{m} \leftrightarrow \text{cm} \times 100$, $\text{km} \leftrightarrow \text{m} \times 1,000$, $\text{kg} \leftrightarrow \text{g} \times 1,000$, $\text{l} \leftrightarrow \text{ml} \times 1,000$.

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

- **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

- The after-school crafts club is making a long kite tail from ribbon. The ribbon they need measures **27 m** in total. How many millimetres of ribbon is that?
Convert 27 m to mm.
- Aoife is cutting a strip of green paper for the class door display for Seachtain na Gaeilge. She lines the strip up against her ruler and it reaches **10 cm** and **4 mm** from the start. What is the length of the strip in cm?
A ruler reading sits 10 cm and 4 mm from the start of the ruler. What is the reading in cm?
- The Camogie coach paces out a sprint lane under the floodlights, measuring **94 m** along the sideline. She wants to mark the lane with cones every metre and needs the length in centimetres for the training plan. How many centimetres is **94 m**?
Convert 94 m to cm.
- Cian measures the side of a hopscotch square painted on the yard with his ruler. The chalked edge reaches **28 cm** and **4 mm** along the ruler. What is the reading in cm?
A ruler reading sits 28 cm and 4 mm from the start of the ruler. What is the reading in cm?
- The 4th class team cycle a total of **26 km** to and from the Cumann na mBunscol blitz at the county grounds. The coach asks them to write the distance in metres for the school noticeboard. How many metres did they cycle?
Convert 26 km to m.