

Converting mass units

MODULE 4 · MEASURES — LENGTH, MASS, CAPACITY, AREA, VOLUME MEASURES

HOW TO ANSWER TODAY

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

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

★ STRETCH PROBLEMS

- 1 The nature trail through the local park measures **5819 m**. How many kilometres is that?
- 2 Aoife helps 5th class measure the ribbon needed to edge every square on their class quilt. They need **3620 cm** of ribbon in total. How many metres of ribbon is that?
- 3 5th class are taping out a giant Snakes and Ladders track in the school yard, with the full snaking path measuring **5969 cm** from start to finish. For their maths display, they need to record the path length in kilometres. How many kilometres long is the track?
- 4 Cian's 5th class is planning a hike through the Wicklow Mountains. The route they have chosen measures **9049 m** from start to finish. How many kilometres long is the hike?
- 5 Aoife measures **9623 cm** of bunting to hang around the school hall for World Book Day. How many kilometres of bunting is that?