

Converting mass units

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

NUMBER

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 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?
Convert 5969 cm to km.
- 2 The art teacher mixes **892 ml** of green paint to use for the new class crest going on the 5th class Gaelic football jersey. She wants to record the amount in litres on her supplies list. How many litres of paint has she mixed?
Convert 892 ml to l.
- 3 For STEM week, Oisín weighs the lollipop sticks and glue he is using to build a model bridge. The materials come to **981 g** on the kitchen scales. What is this mass in kilograms?
Convert 981 g to kg.
- 4 5th class are lining up along the corridor wall before heading out to the yard. The line stretches **717 cm** from the classroom door to the noticeboard. How long is the line in metres?
Convert 717 cm to m.
- 5 Saoirse measures the string holding the bird-feeder outside the 5th class window. It is **495 cm** long from the branch to the feeder. How long is the string in metres?
Convert 495 cm to m.