

# Length – centimetres and millimetres

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

## ★ STRETCH PROBLEMS

- 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?
- 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.
- 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.
- 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?
- 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.