Interpreting scale maps and distances

MODULE 8 · LOCATION, TRANSFORMATIONS AND SCALE REVIEW

HOW TO ANSWER TODAY

- **Convert units.** To a SMALLER unit → multiply. To a BIGGER unit → divide. Common factors: cm↔mm ×10, m↔cm ×100, km↔m ×1,000, kg↔g ×1,000, l↔ml ×1,000.
  250 cm → m: ÷ 100 = 2.5 m · 3.5 kg → g: × 1,000 = 3,500 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. 5th class at St Brigid's measured the total length of ribbon left on the spools in the classroom craft store and got **7628 cm** in total. The teacher wants the answer written in kilometres for the stocktake sheet. How many kilometres is **7628 cm**?

   Convert 7628 cm to km.

3. Saoirse cycles from granny's farmhouse to the far field to check on the calves. The lane runs **3290 m** from the gate to the field. How many kilometres is that?

   Convert 3290 m to km.

4. 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.

5. 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.