

Length: estimate and measure with a ruler (cm and mm)

MODULE 4 · MEASURES — LENGTH, WEIGHT AND CAPACITY

HOW TO ANSWER TODAY

- **Estimate gap.** Subtract the smaller from the bigger to find how far off the estimate was.
Estimated 15 cm, real 12.5 cm → 2.5 cm off
- **Read a ruler.** Each big mark = 1 cm = 10 mm. Each little mark = 1 mm.
3 cm + 7 mm = 37 mm = 3.7 cm

 STRETCH PROBLEMS

- 1 Aoife is making a tessellation pattern for the corridor display. She estimates the strip of paper is **97 cm** long, then measures it as **91 cm** with a metre stick. By how much is her estimate off?
- 2 Cian measures a strip of card for a World Book Day display and the ruler shows it reaches **18 cm** and **4 mm** from the start. What is the length of the strip in cm?
- 3 Oisín measures a strip of green paper to decorate the class door for Seachtain na Gaeilge. On the ruler, the strip reaches **22 cm** and **4 mm** from the start. What is the length of the strip in cm?
- 4 Cian measures the length of a long-jump marker with his ruler while laying out the mini athletics track in the yard. The marker reaches **14 cm** and **6 mm** along the ruler. What is the reading in cm?
- 5 Tadhg is making a homemade Snakes and Ladders board for 4th class. He measures the length of one square, and it sits **25 cm** and **1 mm** along his ruler. What is the reading in cm?

● INVESTIGATE

Measure the classroom

Estimate, then measure, the length and width of your classroom. Record each length in **metres and centimetres**, and also renamed in centimetres only. Work out the perimeter. Would the whole class fit shoulder-to-shoulder along one wall? Show how you decided.