

# Estimating then measuring: length

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

## 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

## ★ STRETCH PROBLEMS

- 1 On the school tour to Glendalough, Oisín finds a long branch by the lake and guesses it is **65.7 cm** long. When he measures it with a measuring tape back at the coach, it is actually **59.8 cm**. By how much is his estimate off?
- 2 Tadhg is drawing a scale plan of the classroom on grid paper. He estimates the length of one bookshelf as **51.6 cm**, then measures it with his ruler as **60.3 cm**. By how much is his estimate off?
- 3 Before Camogie training under the floodlights, Aoife estimates the length of a goalpost shadow as **146.5 cm**. She then measures it with a tape and gets **149 cm**. By how many centimetres is her estimate off?
- 4 Aoife is cutting ribbon for bunting at the school summer fair. She estimates one length as **170.3 cm**, then measures it as **176.2 cm**. By how much is her estimate off?
- 5 Fionn is helping with the class robotics build. He estimates one piece of wire as **31.4 cm** long, then measures it carefully as **34.0 cm**. By how much is his estimate off?