

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

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.
 $3\text{ cm} + 7\text{ mm} = 37\text{ mm} = 3.7\text{ cm}$
- **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

- 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?
- Tadhg measures a long baguette on his ruler to cut sandwiches for the class picnic. The end of the baguette reaches **24 cm** and **4 mm** along the ruler. What is the reading in cm?
 A ruler reading sits 24 cm and 4 mm from the start of the ruler. What is the reading in cm?
- Before going out to the yard, Oisín estimates that his schoolbag is **82 cm** long. When he measures it with a metre stick back in the classroom, it is actually **67 cm** long. By how many centimetres is his estimate off?
 A pupil estimates a length as 82 cm, then measures it as 67 cm. By how much is the estimate off?
- 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?
- Cian estimates that the school noticeboard is **171 cm** wide. He then measures it with a metre stick and finds it is actually **178 cm** wide. By how much is his estimate off?
 A pupil estimates a length as 171 cm, then measures it as 178 cm. By how much is the estimate off?