

Measures word problems (length, weight, capacity)

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

WARM-UP

- At the sleepover, Cian uses his ruler to measure the length of a chocolate biscuit from the snack tray. The reading sits at **3 cm** and **8 mm** from the start of the ruler. What is the reading in mm?
 A ruler reading sits 3 cm and 8 mm from the start of the ruler. What is the reading in mm?
- On the school tour to Glendalough, Oisín finds a smooth stone by the lake and estimates it is **45 cm** long. He then measures it with his ruler and finds it is actually **47 cm** long. By how many centimetres is his estimate off?
 A pupil estimates a length as 45 cm, then measures it as 47 cm. By how much is the estimate off?

PRACTICE

- Aoife is measuring the length of a postcard she bought at the Cliffs of Moher gift shop. On her ruler, the edge of the postcard sits **14 cm** and **4 mm** from the start. What is the reading in cm?
- Tadhg is helping to lay out a mini long-jump take-off strip in the yard. He estimates the length of the strip as **44 cm**, then measures it with a metre stick and finds it is **55 cm**. By how much is his estimate off?

CHALLENGE

- 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?
- 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?