Capacity — estimate and measure in l and ml with a jug

MODULE 4 · MEASURES — LENGTH, WEIGHT AND CAPACITY 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
- **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. 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?

2. Aoife is cutting a strip of green paper for the class door display for Seachtain na Gaeilge. She lines the strip up against her ruler and it reaches **10 cm** and **4 mm** from the start. What is the length of the strip in cm?

   > A ruler reading sits 10 cm and 4 mm from the start of the ruler. What is the reading in cm?

3. Cian measures the side of a hopscotch square painted on the yard with his ruler. The chalked edge reaches **28 cm** and **4 mm** along the ruler. What is the reading in cm?

   > A ruler reading sits 28 cm and 4 mm from the start of the ruler. What is the reading in cm?

4. 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?

5. Oisín is drawing a homemade Snakes and Ladders board for art class. He estimates the side of the board to be **28 cm**, then measures it with a ruler and finds it is really **35 cm**. By how many centimetres is his estimate off?

   > A pupil estimates a length as 28 cm, then measures it as 35 cm. By how much is the estimate off?