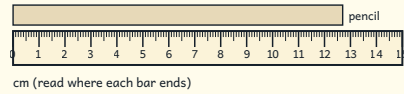


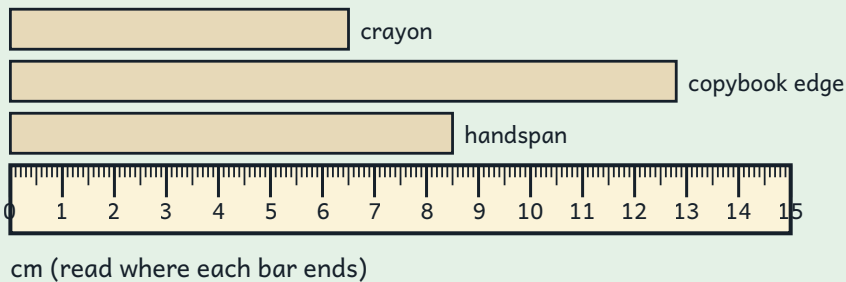
MEASURING A PENCIL WITH A RULER

- 1 Estimate first: the pencil looks about **12** cm long.
- 2 The left end sits exactly on the **0** mark.
- 3 The right end is **7** small marks past **12** cm.
- 4 The length is **12 cm 7 mm**.



 WARM-UP

Read each object off the centimetre ruler, giving your answer in cm and mm.



1. Read the length of the crayon that runs from 0 to 6 cm 5 mm
2. Read the length of the copybook edge that ends at 14 cm 8 mm
3. Read the length of the handspan bar that ends at 9 cm 4 mm

 PRACTICE

- 1 Aoife lays her crayon on the ruler from **0** and the far end stops at **5 cm 3 mm**.
- 2 Sean measures the rubber on his desk and gets **8 cm 6 mm**.
- 3 Niamh reads the glue stick against the class ruler and it lands on **4 cm 9 mm**.
- 4 Cian guesses his pencil is about **16 cm**, then measures it as **15 cm 2 mm**.
- 5 Ella measures the short edge of her copybook and reads **11 cm 1 mm**.

IRISH FACT How wide is a euro coin?

A **1 euro coin** measures **23.25 mm** across — just over **2 cm** — and a **2 euro coin** is a little wider at **25.75 mm**.

European Central Bank



REFLECT

Was your estimate usually close before you measured? What helped you guess well?