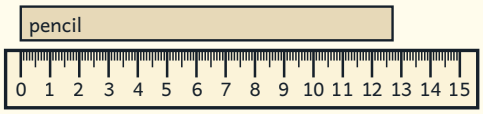
Lesson 43 Length: estimate and measure with a ruler (cm and mm)

MEASURING A PENCIL WITH A RULER

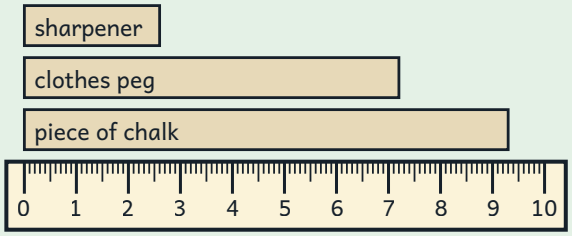
1. Estimate first: the pencil looks about **12** cm long.
2. The left end sits exactly on the **0** mark.
3. The right end is **7** small marks past **12** cm.
4. The length is **12 cm 7 mm**.



cm (read where each bar ends)

WARM-UP

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



cm (read where each bar ends)

1. Read the length of the sharpener off the ruler and write it in cm and mm.
2. Read the length of the clothes peg off the ruler and write it in cm and mm.
3. Read the length of the piece of chalk off the ruler and write it in cm and mm.

PRACTICE

1. Aoife lays her crayon on the ruler from **0** and the far end stops at **5 cm** **3 mm**. How long is it in cm and mm?
2. Sean measures the rubber on his desk and gets **8 cm** **6 mm**. What is this in millimetres?
3. Niamh reads the glue stick against the class ruler and it lands on **4 cm** **9 mm**. How many millimetres long is it?
4. Cian guesses his pencil is about **18 cm**, then measures it as **16 cm** **2 mm**. How many mm shorter than the estimate is it?
5. Ella measures the short edge of her copybook and reads **11 cm** **1 mm**. Write this length in millimetres.
6. At his desk Tom measures the ruler's width as **3 cm** **8 mm** and his handspan as **10 cm** **4 mm**. How much longer is his handspan, in cm and 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?

MEASURES