

Lesson 43 MEASURES

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

WHAT THIS LESSON TEACHES

An estimate is a sensible guess about a length before you measure it exactly. A good estimate is close to the real answer. To measure, line up the left end on the 0 mark and read where the right end falls in cm and mm.

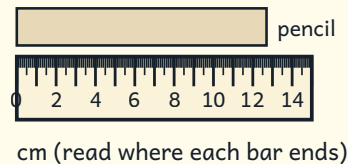
→ A pencil looks about 14 cm before you check with a ruler.

→ A crayon whose right end lands halfway between 8 cm and 9 cm is 8 cm 5 mm long.

MODEL THIS ON THE BOARD

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**.



DISCUSSION STARTER

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

ANSWER KEY

a) 6 cm 5 mm

b) 12 cm 8 mm

c) 8 cm 5 mm

Q1: 5 cm 3 mm

Q2: 86 mm

Q3: 49 mm

Q4: 18 mm

Q5: 111 mm

Q6: 6 cm 6 mm

EXTENSION SHEET · STRETCH ANSWERS

S1: 17.3 cm

S2: 20 cm

S3: 3 cm

S4: 15 cm

S5: 7 cm

Investigation: Measure the classroom — open-ended; scan pupils' working for valid solution paths rather than a single answer.