6 ▸ Measurement, area and perimeter

> 6.1 Measurement

Exercise 6.1

centimetre (cm)   kilometre (km)

metre (m)   rounding

Focus

1 a   Write something that you can measure using each unit of length.

Remember that 1 kilometre = 1000 metres
1 metre = 100 centimetres

Unit of length	What could you measure?
Kilometres (km)	
Metres (m)	
Centimetres (cm)	

b   What could have these measurements? Make your answers different from the ones above.

1 kilometre _____

1 metre _____

1 centimetre _____

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2   Use a ruler.

Estimate and then measure each of these lines in centimetres.

a   _____

    estimate: _____   measure: _____

b   _____
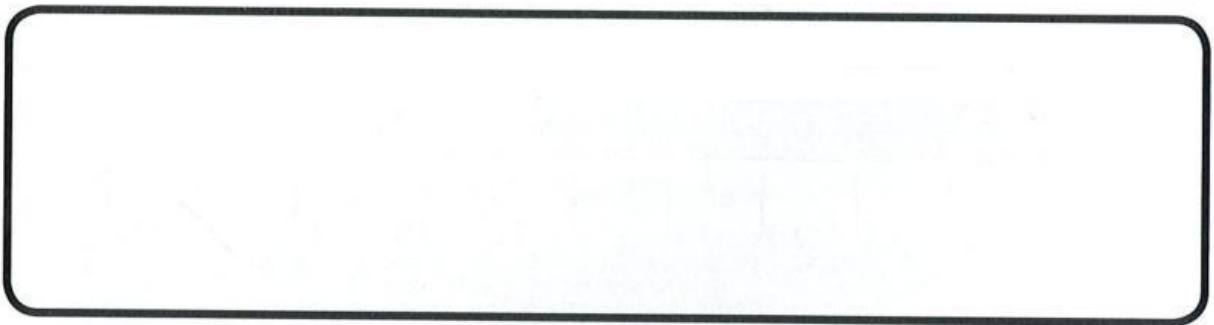
    estimate: _____   measure: _____

c   _____

    estimate: _____   measure: _____

d   Draw lines of lengths 2 cm, 5 cm and 7 cm. Label them.

    ┌───┐
    │   │
    │   │
    │   │
    │   │
    └───┘

3   Draw a (ring) around the correct answers.

a   How many metres are in half a kilometre?

    $\frac{1}{2}$ kilometre =   1000 m   500 m   10 m

b   How many metres in $\frac{1}{4}$ kilometre?

    $\frac{1}{4}$ km =   25 m   250 m   750 m

c   How many centimetres in 1 metre?

1 m =   10 cm   100 cm   1000 cm
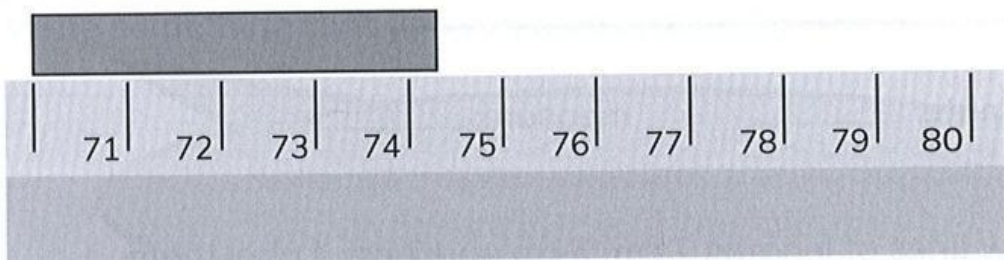
d   How many metres in $\frac{3}{4}$ kilometre?

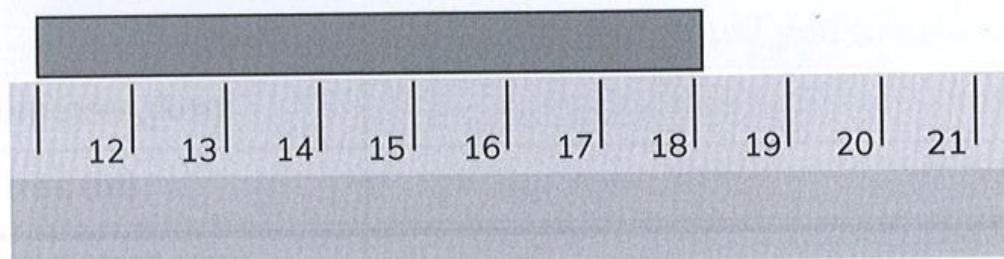$\frac{3}{4}$ km =   75 m   450 m   750 m

Show how you worked out the answer to part **d**.

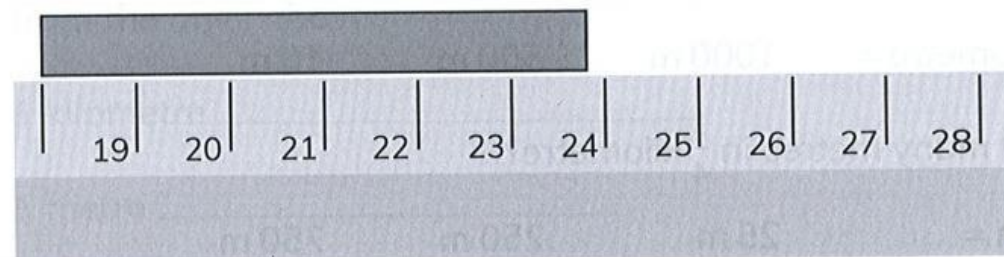4   Find the length of the objects, to the nearest centimetre.

a

| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |

b

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |

c

| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |

Practice

5 a Estimate the distance from your bedroom to the kitchen.
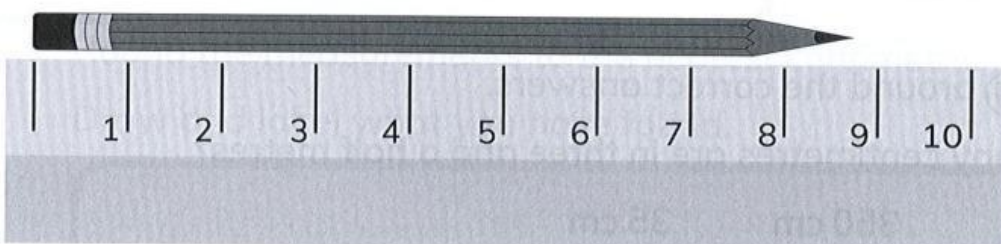
> Will you use centimetres, metres or kilometres?

   estimate: _____

   How could you find out what the length is?

   _____

   b Estimate the distance from your house to the nearest shop.

      Use either centimetres, metres or kilometres. Explain your choice.

      _____

      _____

6 Complete the sentence.
   Round the answer to the nearest centimetre.

   The length of the pencil is about _____ cm.

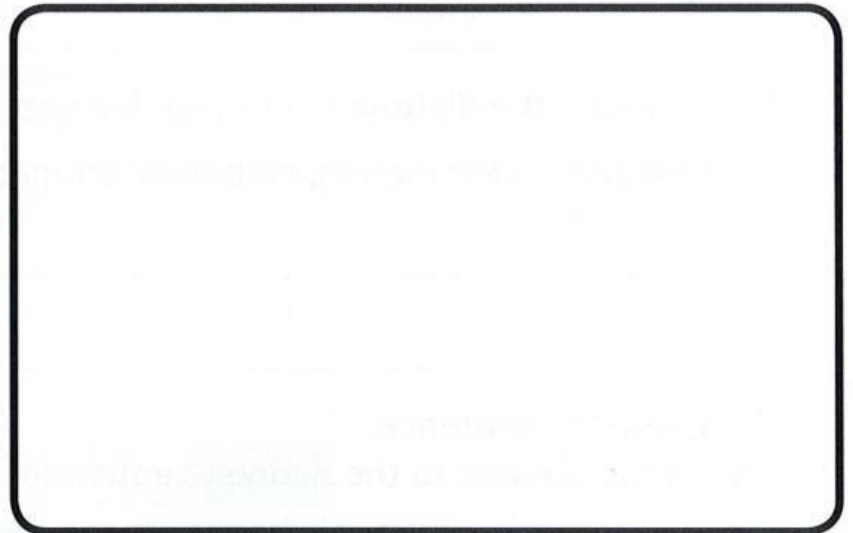**7 a** Estimate then measure the height of each picture.

estimate: _____

measure: _____

estimate: _____

measure: _____

b Draw and measure a person shorter than Arun.

8 Draw a (ring) around the correct answers.

a How many centimetres are in three and a half metres?

300 cm   350 cm   35 cm

b How many centimetres are in five and a quarter metres?

550 cm   575 cm   525 cm   500 cm

c 500 cm = _____ m

d 250 cm = _____ m

e Which is more: $\frac{3}{4}$ m or 700 cm?

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