

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 _____

2 Use a ruler.

Estimate and then measure each of these lines in centimetres.

a 

estimate: _____ measure: _____

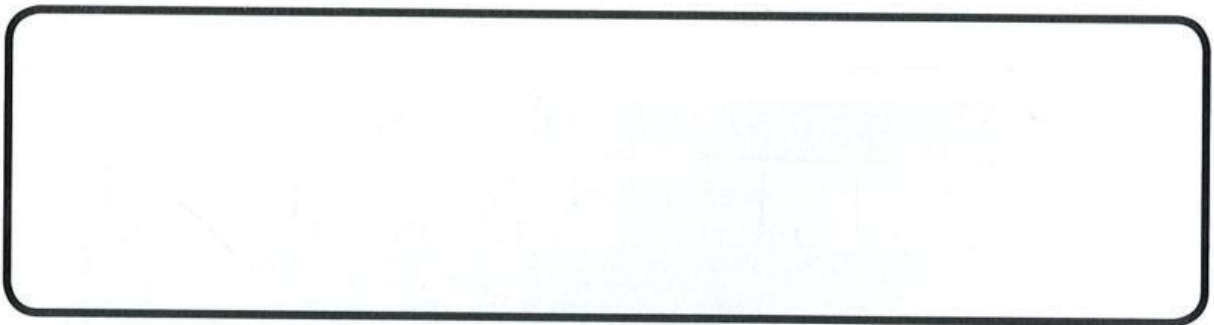
b 

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

6 Measurement, area and perimeter

c How many centimetres in 1 metre?

1 m = 10 cm 100 cm 1000 cm

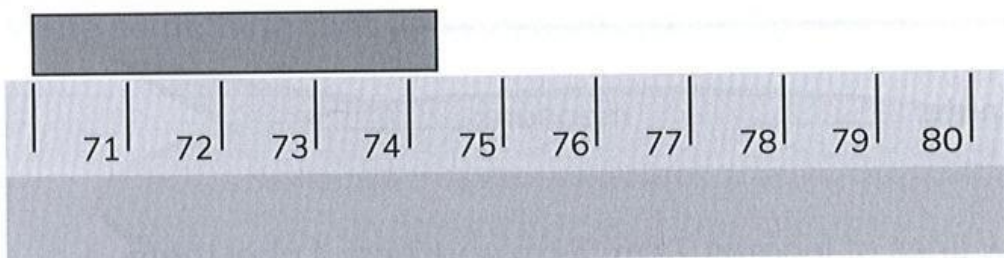
d How many metres in $\frac{3}{4}$ kilometre?

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

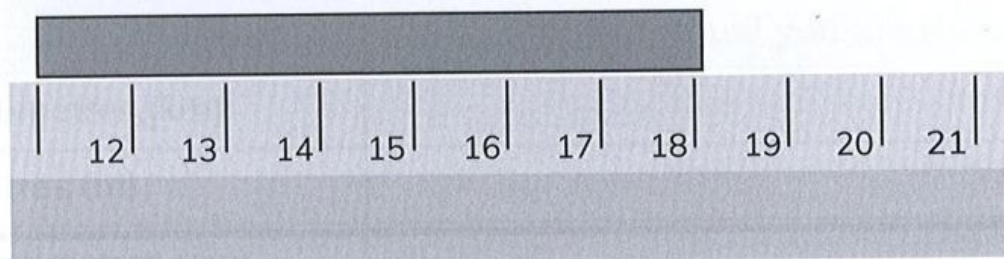
Show how you worked out the answer to part d.

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

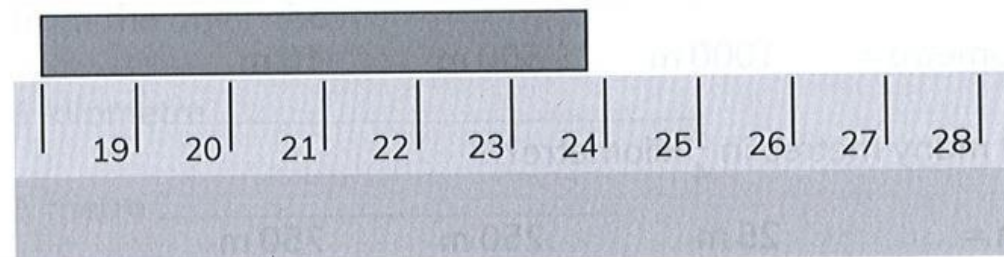
a



b



c



Practice

- 5 a Estimate the distance from your bedroom to the kitchen.

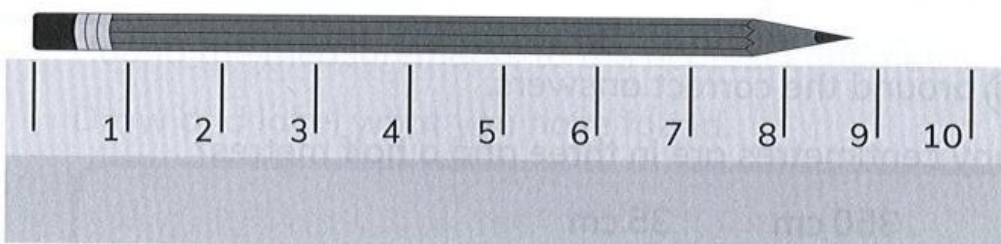
Will you use centimetres,
metres or kilometres?

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: _____

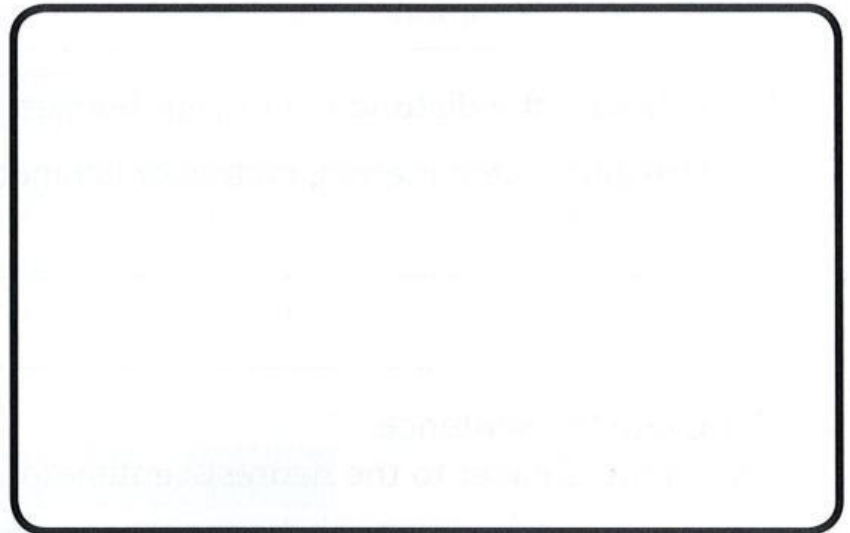
measure: _____



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?