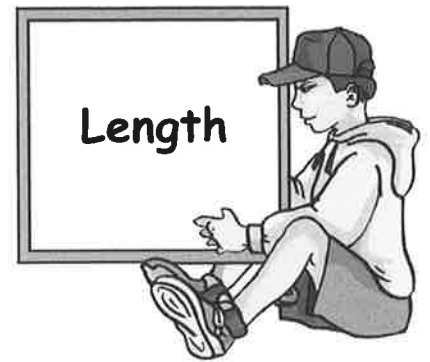


# CHAPTER 13a



## Exercise 1

1. Use your ruler to measure the length of these lines, in **centimetres**. (e.g. 3.6 cm).

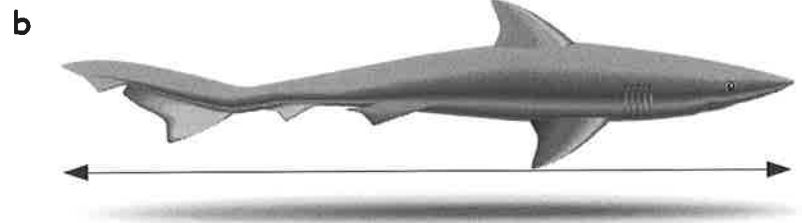
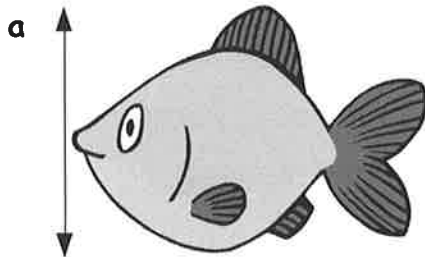
a

b

c

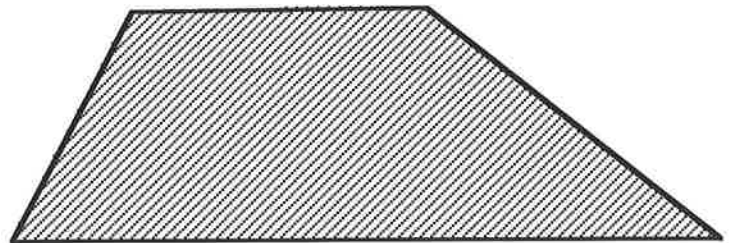
d

2. Measure the dimension for each of these toy plastic fish, in **millimetres**.



3. a Measure the four sides of this shape, in **centimetres**.

- b Calculate the difference between the longest and the shortest side.



4. a Use your ruler to **draw** :-

(i) a square of side 50 mm

(ii) a rectangle measuring 7.5 cm by 1.5 cm.

- b Measure and write down the length of the diagonals for each shape.

## Exercise 2

1. How many :-

a centimetres are in 1 metre

b metres are in 1 kilometre

c millimetres are in 1 centimetre

d millimetres are in 1 metre

e centimetres are in 1 kilometre

f millimetres are in 1 kilometre ?

2. How many millimetres are there in :-

a 9 cm

b 6 cm 2 mm

c 12.3 cm


d quarter of a cm ?

3. How many centimetres are equal to:-  
 a 40 mm                      b 85 mm                      c 2500 mm                      d 3 mm ?
4. How many centimetres are there in :-  
 a 6 m                              b half a metre                      c 500 m                      d 0.01 m ?
5. How many metres are equal to :-  
 a 800 cm                      b 1300 cm                      c 75 cm                      d 20 cm ?
6. How many metres are equal to:-  
 a 5 km                              b 2 km 250 m                      c 3.7 km                      d 0.8 km ?
7. How many kilometres are there in :-  
 a 6000 m                      b 4250 m                      c 810 m                      d 200 000 m ?

### Exercise 3


1. Young Donnie balanced some pot noodle tubs on top of each other.  
 The tubs were 96 mm, 107 mm, 145 mm and 160 mm in height.  
 a How high did the four tubs reach ?  
 b Write this height in centimetres.



2.  Joe was shortening a 2.2 metre door.  
 He sawed 69 mm off the top.  
 a Change 2.2 metres to millimetres.  
 b Write down the new length of the door, in millimetres.

3. Eight sugar mice are placed in a row, making a total length of 36 cm.  
 Calculate the length of one mouse, in millimetres.



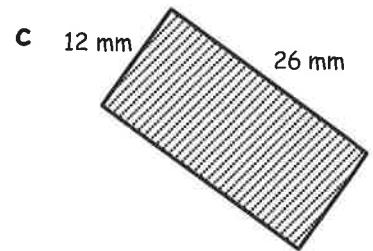
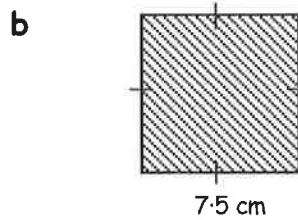
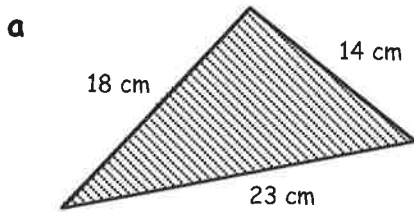
4.  Wendy came first in the Dunoon Games high jump competition  
 with a best jump of 1.84 metres.  
 The world record high jump for ladies is 2.09 metres.  
 How many centimetres below the world record was Wendy ?

5. A £2 coin has a diameter of 28.4 mm.  
 If 200 of them are placed in a straight line  
 how far will the line of coins stretch, in metres ?

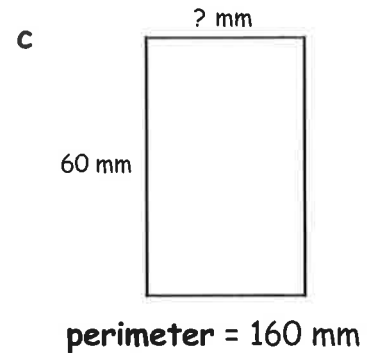
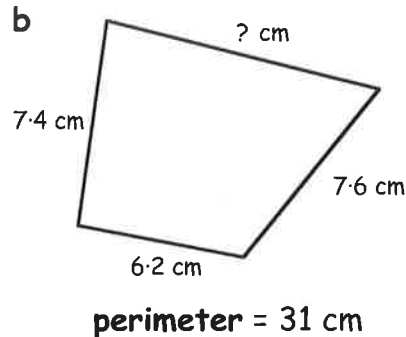
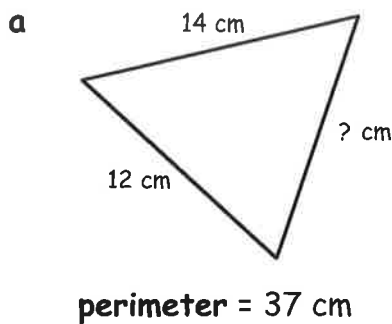


## Exercise 4

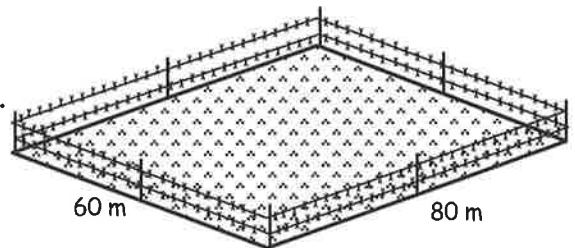
1. Calculate the **perimeter** of each of the following shapes :-



2. Calculate the lengths of the missing sides of the following figures :-



3. Farmer Tait has a rectangular field.  
He surrounds it with 2 strands of barbed wire.  
The wire costs 50p per metre.  
Calculate the total cost of the wire.



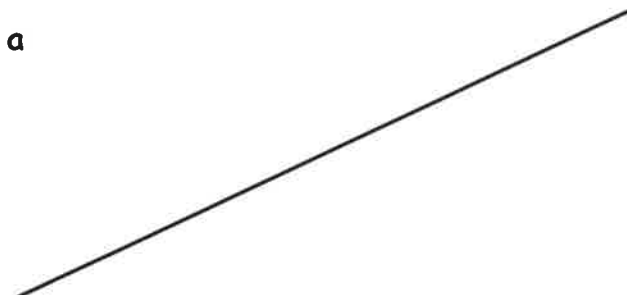
## Revision Exercise

1. With your ruler, measure the length of these lines, in **centimetres**.



2. Write down the lengths of the following lines in :-

(i) millimetres      (ii) centimetres      (iii) centimetres and millimetres.



3. Use a ruler to draw a line **140 millimetres** long.

4. Change :-

a 3 m to cm

b 40 cm to mm

c 5.9 km to m

d 4000 m to km

e 460 cm to m

f 70 mm to cm

g 3700 m to km

h 1 m 20 cm to cm

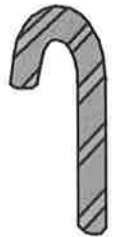
i 17.5 metres to cm

j  $4\frac{1}{2}$  cm to metres

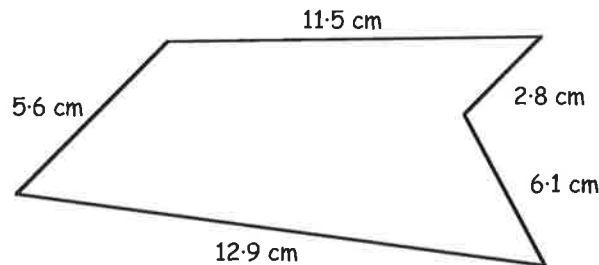
k 19.2 cm to mm

l 870 cm to m.

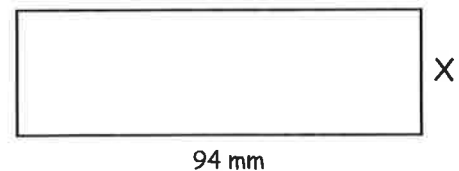
5. Jessie had a candy stick 21 cm long. She bit off 28 mm from the bottom. What length of candy stick was left, in millimetres?



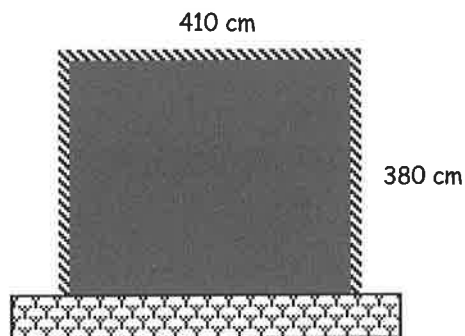
6. Calculate the **perimeter** of this shape :-



7. The **perimeter** of this rectangle is 228 mm. Calculate the length of the side marked X.



8. Mr Stainrod is to put up a concrete border round **3 sides** of his rectangular front lawn (*not the wall side*).



Bordering costs £10 per metre length in Homestore.

a How many metre lengths will he need to buy?

b How much will the job cost him?