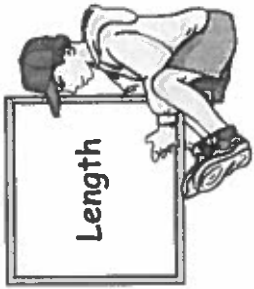






# CHAPTER 13a

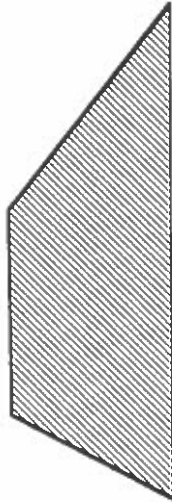


## Exercise 1

- Use your ruler to measure the length of these lines, in centimetres. (e.g. 3.6 cm).  
 a  b   
 c  d 
- Measure the dimension for each of these toy plastic fish, in millimetres.



- Measure the four sides of this shape, in centimetres.
  - Calculate the difference between the longest and the shortest side.
- Use your ruler to draw :-
  - a square of side 50 mm
  - a rectangle measuring 7.5 cm by 1.5 cm.




## Exercise 2


- How many :-
  - centimetres are in 1 metre
  - metres are in 1 kilometre
  - millimetres are in 1 centimetre
  - millimetres are in 1 metre
  - centimetres are in 1 kilometre
  - millimetres are in 1 kilometre ?
- How many millimetres are there in :-
  - 9 cm
  - 6 cm 2 mm
  - 12.3 cm
  - quarter of a cm ?

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

## Exercise 3

- 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.
  - How high did the four tubs reach ?
  - Write this height in centimetres.
- 


Joe was shortening a 2.2 metre door. He sawed 69 mm off the top.

  - Change 2.2 metres to millimetres.
  - Write down the new length of the door, in millimetres.
- 

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



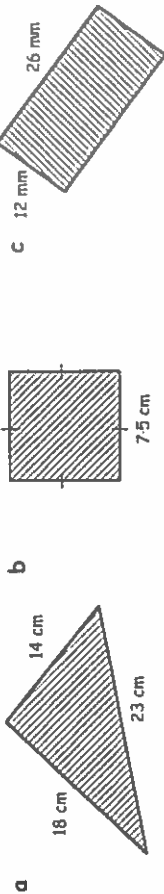
- Wendy came first in the Dunoan Games high jump competition with a best jump of 1.84 metres. The world record high jump for ladies is 2.09 metres. How many centimetres below the world record was Wendy ?



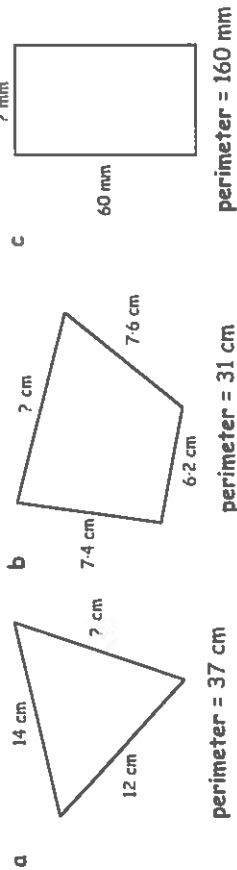
- A £2 coin has a diameter of 28.4 mm. If 200 of them are placed in a straight line how far will the line of coins stretch, in metres ?

### Exercise 4

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



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



perimeter = 37 cm

perimeter = 31 cm

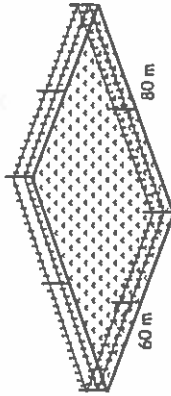
perimeter = 160 mm

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.



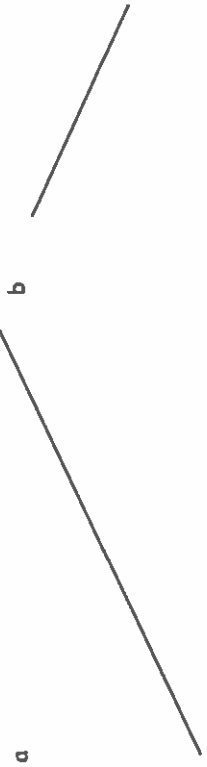
### Revision Exercise

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 :-

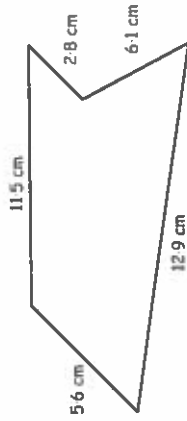
- a 3 m to cm
- b 40 cm to mm
- c 5.9 km to m
- d 4000 m to km
- e 460 cm to m
- f 70 mm to cm
- g 3700 m to km
- h 1 m 20 cm to cm
- i 17.5 metres to cm
- j  $4\frac{1}{2}$  cm to metres
- k 19.2 cm to mm
- l 870 cm to m.



5. Jessie had a candy stick 21 cm long. She bit off 28 mm from the bottom.

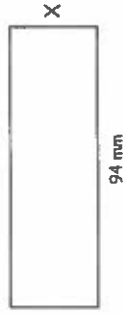
What length of candy stick was left, in millimetres?

6. Calculate the perimeter of this shape :-

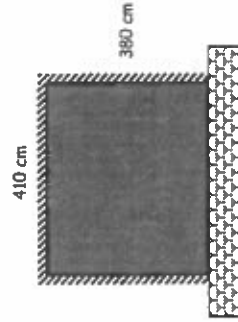


7. The perimeter of this rectangle is 228 mm.

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?