

LENGTH AND PERIMETER

MNU 311-a

I can solve practical problems by applying my knowledge of measure, choosing the appropriate units and degree of accuracy for the task and using a formula to calculate area or volume when required.

Pupils should be able to:

- Measure and draw in standard units and know the relationships between mm, cm, m, km
- Estimate lengths and heights in m and cm, in m and mm
- Convert between units, eg $345 \text{ cm} = 3 \text{ m } 45 \text{ cm}$ or 3.45 m
- Be aware of common Imperial units (inches, feet, yards, mile)
- Understand the meaning of perimeter
- Calculate the perimeter of a polygon by adding lengths
- Apply in contexts, e.g. cost of fencing a park, perimeter of floor of classroom
- Calculate the perimeter of a compound rectangular shape with some missing lengths, by first calculating the lengths
- Find a formula for the perimeter of a rectangle

PUPILS SHOULD COMPLETE THE FOLLOWING EXERCISE AND ASSESS THEIR PROGRESS BY TICKING ONE OF THE OPTIONS FOR EACH TOPIC IN THE TABLE BELOW

	DEVELOPING	CONSOLIDATING	SECURE
Measure and convert between mm, cm, m, km (Questions 1-3)			
Find the perimeter of a shape. (Question 4)			
Use perimeter to solve real life problems. (Question 5)			
Find a formula for the perimeter of a rectangle. (Question 6)			

SELF EVALUATION EXERCISE

DATE DUE _____

1. Change the following to centimetres:

- a) 2m
- b) 7m
- c) 0.5m
- d) 2.7m
- e) 0.89m
- f) 0.04m

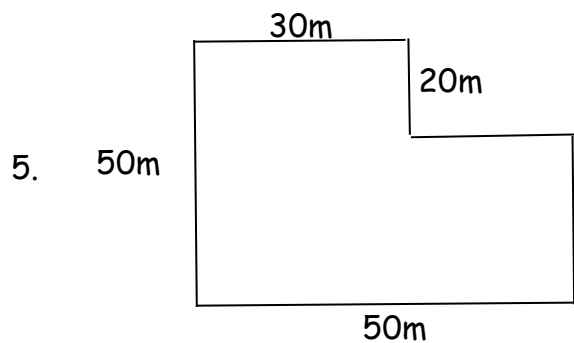
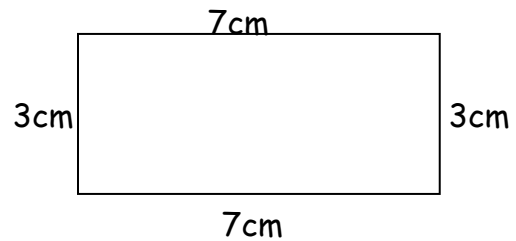
2. Change the following to metres:

- a) 1km
- b) 5km
- c) $\frac{1}{4}$ km
- d) 8.2km
- e) 0.003km
- f) 0.075km

3. a) Measure the length of this line in (i) cm (ii) mm _____

b) Draw a line 6.5cm in length.

4. Find the perimeter of this shape:



A fence is to be put around the perimeter of this field.
What is the total length of fencing needed?

6. Write down an expression for the perimeter of this rectangle:

