NALANDA V **Nalanda Vidyalaya – Colombo 10** **ƆA VIDYALAYA**

NALANDA VIDYALAY 3rd Term - Unit Test Project **NALANDA VIDYALAYA**

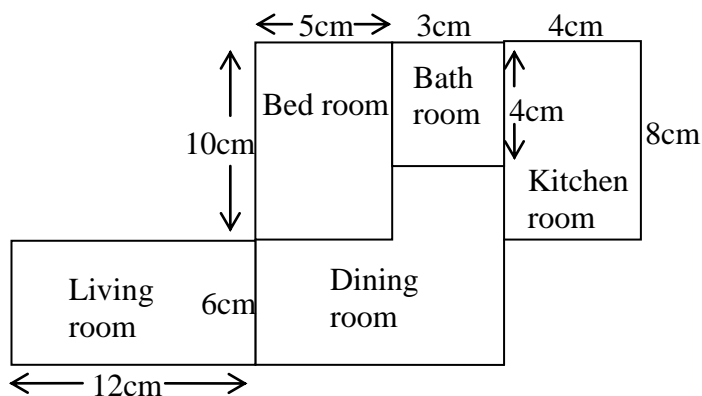| Grade 7 | Mathematics | 1 ½ hours |

27 - Scale Diagrams

Part I

(1) Express the scales as a ratio.
   i)   Representing 50 cm by 1cm.
   ii) Representing 1 mm by 5cm.

(2) The side length of a square shaped land is 30m. Draw a scale diagram, using a suitable scale.

(3) In a map drawn to the scale 1 : 1000
   i)   Find the actual length represented by 2cm.
   ii) Find the actual length represented by 8cm.
   iii) What length in the map represents an actual length of 10m.

Part II

(1) The length of a rectangular land is 50m and the width is 25m.
   i)   Select a suitable scale to draw the scale diagram of the land.
   ii) Draw the scale diagram of the land.

(2) In a map drawn to scale 1 : 50 000,
   i)   What is the actual distance indicated by a distance of 5cm.
   ii) What length in the map represents a distance of 2 km.
   iii) If the distance from maharagama to nugegoda is 10 km, what is the distance between the two cities in the map?

(3) The floor plan of a house is shown in the figure. The scale is 1 : 200

i) Find the actual length of kitchen,
ii) Find the actual length of living room,
iii) Find the actual width of dining room,
iv) Find the area of bed room,
v) Find the area of dining room,
vi) Find the perimeter of given plan.
vii) It is proposed to lay tiles in the living room. Estimate the number of square tiles of side length 50cm required for this purpose.