Sabaragamuwa Provincial Department of Education – Weekly School

Subject :- Mathematics

Week- 11 (3rd term)

Grade :- 8

Setting :- Embilipitiya Education Zone

(Learning Time :- 3 hours & 20 minutes) Scale Diagrams

28.1 Scale Diagrams.

- It is often difficult to draw the various objects in the environment according to the actual measurements. In such situations, for every rectilinear plane figure,
    1. a figure drawn to represent the shape of the original figure is called a sketch.
    2. when a rectilinear plane figure is drawn such that every measurement of length is increased or decreased by the same ratio, the drawn figure is called a scale diagram of the given figure.
- Recall what you learnt about scale diagrams in grade 7.
- Complete the review exercise by studying the pages 141, 142 in text book (Part 2).

28.2 Calculating the lengths corresponding to actual lengths when the scale of a scale diagram is given.

- When 1m of the original figure is represented by 1cm in the scale diagram; below given is the way to denote the scale as a ratio.

  Length of the scale diagram : length of the original figure

  1 cm : 1m

  1 cm : 100 cm (since 1m = 100 cm)

  Scale = 1: 100
- Complete the exercise 28.1 by studying the pages 143 & 144.

28.3 Determining the actual lengths when a scale diagram is given.

- Complete the exercise 28.2 by studying the pages 145 & 146.

28.4 Drawing scale diagrams

- Complete the exercise 28.3 by studying the page 147.
- Complete the miscellaneous exercise.