Sabaragamuwa Provincial Department of Education – Weekly School

Subject :- Mathematics

Week- 8 (3rd term)

Grade :- 8

Setting :- Embilipitiya Education Zone

(Learning Time :-2 hours)

Construction of Triangles

26.3 Construction of an isosceles triangle

- If the two sides of a triangle are equal in length, the triangle is called as an isosceles triangle.
- By following the below given steps construct the PQR isosceles triangle where PQ = 6cm & PR = QR = 4cm.
    1. Construct a straight line which has a length greater than 6cm. Mark one edge of the line as P.
    2. Set the compass to 6cm and keep the compass point at P and create an arc on the straight line. Name the intersecting point as Q.
    3. Set the compass to 4cm and keep the compass point at P and create an arc above the straight line. Next keep the compass point on Q and draw an arc intersecting the first arc.
    4. Name the point of intersecting the two arcs as R. Join PR and QR and complete the triangle PQR.

26.4 Construction of a scalene triangle

- If all the three sides in a triangle are different in length, the triangle is a scalene triangle.
- Study the pages 121, 122 in text book and construct a scalene triangle where the lengths of the sides are 6 cm, 5 cm & 3 cm.
- Complete the exercise 26.2 by studying the pages 119, 120, 121 & 122.