

Subject: Mathematics

Class: 4

Unit: 1

Chapter: Geometry

Topic: Drawing line segments & construction of angles

- 1. Specific objectives:** At the end of this learning activities students will be able to:
 - i. Draw line segments with the given length.
 - ii. Construct the angle by using protractor.
- 2. Materials:** ruler, protractor and daily use materials.

Drawing Line Segments

Drawing a line segment KL with the length 4cm, we use the following steps:

Steps

- a. Mark a point K on your copy.
- b. Place a ruler on the copy with the zero of the scale on point K.
- c. Mark another point L which is 4cm apart from the point k.
- d. Join K and L which is required line segment KL having the length 4cm.

Construction of an angle by using a protractor.

Let us construct an angle $PQR = 40^\circ$ by using a protractor. The following steps are used to construct the angle PQR.

Steps

- a. Draw a base line QR.
- b. Line up QR with the base of a protractor so that the vertex Q lies at the Centre of the base line of the protractor.
- c. Count from 0° to 40° on the protractor and mark P where 40° is shown on the protractor and remove the protractor.
- d. Join Vertex Q and point P, then the angle PQR 40° is constructed.

3. Homework: (1) Draw the following line segments:

- a. $XY = 7\text{cm}$ b. $AB = 3.5\text{cm}$ c. $MN = 5.5\text{cm}$

(2) Draw the following angles by using a protractor.

- a. 30° b. 100° c. 90° d. 75°