National Institute of Open Schooling (NIOS)
Secondary Course
Lesson –18: Constructions
Worksheet – 18

1. Draw a line segment 10 cm long. Divide the line segment in the ratio 2:3. Measure each part of line segment and also write the steps of construction.

2. Draw a line segment AB = 8 cm. Find point C on it such that AC = 3/4 AB

3. Construct a triangle ABC such that the three sides of the triangle are 5cm, 4 cm and 6 cm respectively.

4. Construct a triangle PQR such that PQ = 6.5cm, QR = 7.4cm and angle Q = 45^0

5. Construct a right angle triangle ABC, where angle B is right angle, base BC = 5cm and hypotenuse AC = 8cm.

6. Construct a triangle ABC in which BC=8 cm, $\angle B = 75^0$ and $AB + AC = 13$ cm

7. Construct a triangle ABC in which BC=8 cm, $\angle B = 45^0$ and AB - AC = 2.5 cm.

8. Construct a right triangle whose base is 10 cm. and sum of its hypotenuse and other side is 16 cm.

9. Construct a triangle if its perimeter is 12.5 cm and two angles are 45^0 and 60^0

10. Construct a right angled triangle whose hypotenuse is 10 cm and one of its other two sides is 6.5cm.