- 1. Construct an angle of 90° at the initial point of the given ray.
- 2. Draw a line segment PQ = 8.4 cm. Divide PQ into four equal parts using ruler and compass.
- 3. Draw any reflex angle. Bisect it using compass. Name the angles so obtained.
- 4. Why we cannot construct a  $\triangle ABC$ , if  $\angle A=60^{\circ}$ , AB 6 cm, AC + BC = 5 cm but construction of A ABC is possible if  $\angle A=60^{\circ}$ , AB = 6 cm and AC BC = 5 cm.
- 5. Construct angle of [65]0 using compass only.
- 6. Using ruler and compass, construct 4∠XYZ, if ∠XYZ= 20°
- 7. Construct an equilateral triangle LMN, one of whose side is 5 cm. Bisect ∠ M of the triangle.
- 8. Construct a triangle ABC with BC = 8 cm,  $\angle$ B= 45° and AB AC = 3.1 cm.
- 9. Construct an isosceles triangle whose two equal sides measure 6 cm each and whose base is 5 cm. Draw the perpendicular bisector of its base and show that it passes through the opposite vertex
- 10. Construct a right triangle whose base is 8 cm and sum of the hypotenuse and other side is 16 cm.
- 11. To construct an isosceles  $\triangle$ ABC in which base BC = 4 cm, sum of the perpendicular from A to BC and side AB = 6.5 cm.
- 12. Construct an equilateral triangle of altitude 6 cm.