PRACTICE QUESTIONS
CLASS VI: CHAPTER - 14
PRACTICAL GEOMETRY

1. Draw a circle of radius 3.2 cm.

2. With the same centre O, draw two circles of radii 4 cm and 2.5 cm.

3. Draw a line segment of length 7.3 cm using a ruler.

4. Construct a line segment of length 5.6 cm using ruler and compasses.

5. Construct $\overline{AB}$ of length 7.8 cm. From this, cut off $\overline{AC}$ of length 4.7 cm. Measure $\overline{BC}$.

6. Given $\overline{AB}$ of length 3.9 cm, construct $\overline{PQ}$ such that the length of $\overline{PQ}$ is twice that of $\overline{AB}$. Verify by measurement.

7. Given $\overline{AB}$ of length 7.3 cm and $\overline{CD}$ of length 3.4 cm, construct a line segment $\overline{XY}$ such that the length of $\overline{XY}$ is equal to the difference between the lengths of $\overline{AB}$ and $\overline{CD}$. Verify by measurement.

8. Draw any line segment AB. Mark any point M on it. Through M, draw a perpendicular to $\overline{AB}$. (use ruler and compasses)

9. Draw any line segment PQ. Take any point R not on it. Through R, draw a perpendicular to $\overline{PQ}$. (use ruler and set-square)

10. Draw a line *l* and a point X on it. Through X, draw a line segment XY perpendicular to *l*. Now draw a perpendicular to $\overline{XY}$ at Y. (use ruler and compasses)

11. Draw a line segment of length 9.5 cm and construct its perpendicular bisector.

12. With PQ of length 6.1 cm as diameter, draw a circle.

13. Draw a circle with centre C and radius 3.4 cm. Draw any chord AB. Construct the perpendicular bisector of AB and examine if it passes through C.

14. Draw a circle of radius 4 cm. Draw any two of its chords. Construct the perpendicular bisectors of these chords. Where do they meet?

15. Draw $\angle$POQ of measure 75° and find its line of symmetry.

16. Draw a right angle and construct its bisector.

17. Construct with ruler and compasses, angles of following measures:
(a) 60° (b) 30° (c) 90° (d) 120° (e) 45° (f) 135°

18. Draw an angle of 70^0. Make a copy of it using only a straight edge and compasses.