



MATHS

BOOKS - SUBHASH PUBLICATION

PRACTICAL GEOMETRY

Exercise

1. Deaw a circle of radius 3.2 cm.



Watch Video Solution

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



Watch Video Solution

3. Draw any circle and mark point A, B and C such that (a) A is on the circle.



Watch Video Solution

4. Draw any circle and mark point A, B and C such that (b) B is in the interior of the circle.



[Watch Video Solution](#)

5. Draw any circle and mark point A, B and C such that (c) C is in the exterior of the circle.



[Watch Video Solution](#)

6. Let A , B be the centres of two circles of equal radii, draw them so that each one of them passes through the centre of the other. Let them intersect at C and D . Examine whether AB and CD are at right angles.



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

10. 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.



[Watch Video Solution](#)

11. Draw any line segment \overline{PQ} . Without measuring \overline{PQ} , construct a copy of \overline{PQ}



[Watch Video Solution](#)

12. Given some line segment \overline{AB} , whose length you do not know, construct \overline{PQ} such that the length of \overline{PQ} such that the length of \overline{PQ} is twice that of \overline{AB} .



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



Watch Video Solution

15. Draw \overline{AB} of length 7.3 cm and find its axis of symmetry.



Watch Video Solution

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



Watch Video Solution

17. Draw the perpendicular bisector of \overline{XY} whose length is 10.3 cm. (a) Take any point P on the bisector drawn. Examine whether $PX = PY$.



Watch Video Solution

18. Draw the perpendicular bisector of \overline{XY} whose length is 10.3 cm.(b) If M is the mid point of \overline{XY} , what can you say about the lengths MX and MY ?



Watch Video Solution

19. Draw a line segment of length 12.8 cm. Using compasses, divide it into four equal parts. Verify by actual measurement.



Watch Video Solution

20. With \overline{PQ} of length 6.1 cm as diameter, draw a circle.



[Watch Video Solution](#)

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



[Watch Video Solution](#)

22. Draw a circle with centre C and radius 3.4 cm. Draw any chord \overline{AB} . Construct the perpendicular bisector of \overline{AB} and examine if it passes through C. Repeat Question 6, \overline{AB} happens to be a diameter.



Watch Video Solution

23. Draw a circle of radius 4 cm. Draw any two of its chords. Construct the perpendicular

bisectors of these chords. Where do they meet?



[Watch Video Solution](#)

24. Draw any angle with vertex O . Take a point A on one of its arms and B on another such that $OA = OB$, Draw the perpendicular bisectors of \overline{OA} and \overline{OB} . Let them meet at P . Is $PA = PB$?



[Watch Video Solution](#)

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



Watch Video Solution

26. Draw an angle of measure 147° and construct its bisector.



Watch Video Solution

27. Draw a right angle and construct its bisector.



Watch Video Solution

28. Draw an angle of measure 153° and divide it into four equal parts.



Watch Video Solution

29. Construct with ruler and compasses, angles of following measures: 60°



Watch Video Solution

30. Draw an angle of measure 45° and bisect it.



Watch Video Solution

31. Draw an angle of measure 135° and bisect it.



Watch Video Solution

32. Draw an angle of 70° . Make a copy of it using only a straight edge and compasses.



Watch Video Solution

33. Draw an angle of 40° . Copy its supplementary angle.



Watch Video Solution