

VI - Mathematics Assignment No-03- Practical Geometry.

- Q1. Draw a circle of $r = 5\text{cm}$. Draw any chord AB not passing through the centre. Draw the bisector of chord AB. Is it passing through the centre? (Yes)
- Q2. Draw any two chords in a circle of radius 4 cm. Draw the bisectors of these two chords. Where do they meet? (at centre)
- Q3. The longest chord of a circle is 8 cm. How will you find the centre of the circle? (Bisect this chord)
- Q4. You are given three points as A, B, C on your sheet. How will you draw a circle which will pass through A, B, C?
- Hint: Join AB and AC. Draw the right bisectors of AB and AC meeting each other at point O, the centre of the circle.

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- Q5. Draw two Concentric Circles (means same centre) of radius 4cm and 5.5cm.
- Q6. Draw a Circle of $r = 3\text{cm}$. Draw two Diameters AB and CD. Join the end points of the diameters. State the name of the quadrilateral formed. (Rectangle)
- Q7. Take a length $XY = 12\text{cm}$. From this cut off $XA = 2.5\text{cm}$ and $YB = 6.5\text{cm}$
Now measure the remaining length AB. (3cm)
- Q8. Given three different lengths as 2.5cm
2.6cm and 3.4cm. Construct a length equal to the sum of these three lengths
Measure the new length. (8.5cm)
- Q9. Draw a line segment $AB = 9\text{cm}$.
Take a point C on AB such that $AC = 3\text{cm}$. Draw CD perpendicular to AB.
- Q10. Draw a line $AB = 5\text{cm}$. Take any point P outside it. Draw a line passing through P and parallel to AB.