Construction of Circle

1. **Draw a circle of radius 6.5 cm.**

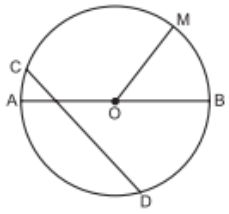
2. **With the same center O, draw two circles of radius 5 cm and 2.5 cm.**

3. **Draw any circle and mark points P, Q and R such that:**
   - **a.** P is on the circle.
   - **b.** Q is in the interior of the circle.
   - **c.** R is in the exterior of the circle.

4. **With length 6.2 cm as diameter, draw a circle.**

5. **Fill in the blanks:**
   - **a.** _____ is used to draw line segments and to measure their lengths.
   - **b.** A _____ has a pointer on one end and a pencil on the other.
   - **c.** A compass is used to draw _____ and _____.
   - **d.** A _____ is used to compare lengths.
   - **e.** A _____ is used to draw and measure angles.
   - **f.** Set square is in _____ shape.

6. **Observe the figure given below and answer the following:**
   - **a.** Name any diameter of the circle _____
   - **b.** Name any radius of the circle _____
   - **c.** Name the chord of the circle _____
   - **d.** Name the centre of the given circle _____



7. **Let A and B be the centres of the circles of equal radii. Draw them so that each one of them pass through the centre of the other. Let them intersect at C and D. Examine whether $\overline{AB}$ and $\overline{CD}$ are at right angles.**

8. **Draw two concentric circles with centre O. Make a point:**
   - **a.** A which lies in the exterior of both the circles.
   - **b.** B which lies in the exterior of the inner circle and interior of the outer circle.
   - **c.** C which lies in the interior of both the circles.

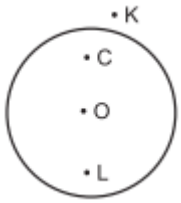
9. **Draw a circle whose radius is 6 cm. Draw two perpendicular diameters AB and CD. Join the end points of the diameters. State the name of the quadrilateral so formed.**

10. **Choose the correct answer.**

   a. An instrument used to measure angles.

   i) Compass ☐ ii) Protractor ☐ iii) Set Squares ☐

   b. In the given figure, point K lies in:



   i) interior ☐ ii) exterior ☐ iii) both (a) and (b) ☐

   c. If the diameter of a circle is 10 cm, then what will be its radius?

   i) 5 cm ☐ ii) 20 cm ☐ iii) 10 cm ☐

   d. In a circle, diameter

   i) is the longest ☐ ii) passes through the centre ☐

   iii) is double of the radius ☐ iv) All of them ☐

   e. The number of diameters of a circle is:

   i) uncountable number ☐ ii) 4 ☐ iii) 1 ☐