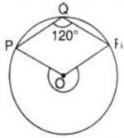
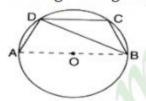


## CBSE Test Paper 01 **CH-10 Circles**

March Stillents 1. What fraction of the whole circle is minor arc RP in the given figure?



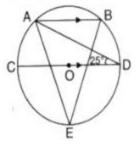
- a.  $\frac{1}{4}$  of the circle
- of the circle
- of the circle
- of the circle
- Circle having same centre are said to be
  - a. secant
  - b. chord
  - c. Concentric
  - d. circle
- 3. In the given figure, if  $\angle ADC = 118^{\circ}$ , then the measure of  $\angle BDC$  is



- a. 32°
- b. 38°
- c. 28°
- d. 22°
- 4. If a chord of a circle is equal to its radius, then the angle subtended by this chord in major segment is
  - a. 30°
  - b. 90°
  - c. 45°
  - d. 60°



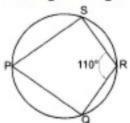
5. In the given figure, AB  $\parallel$  CD and O is the centre of the circle. If  $\angle ADC = 25^o$ , then the measure of  $\angle AEB$  is



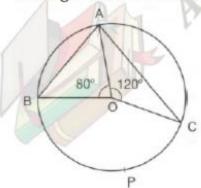
- a. 40°
- b. 80°
- c. 25°
- d. 80°
- 6. Fill in the blanks:

J.B.S.F. students The region between an arc and the two radii, joining the centre to the ends of the arc is called .

7. In the given figure, PQRS is a cyclic quadrilateral. If  $\angle$ QRS = 110°, then find  $\angle$ SPQ.



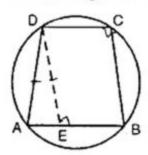
8. In the figure, A, B, C are three points on a circle such that the angles subtended by the chords AB and AC at the centre O are 80° and 120° respectively. Determine ∠BAC and the degree measure of arc BPC.



9. AB = DC and diagonal AC and BD intersect at P in cyclic quadrilateral Prove that  $\Delta PAB \cong \Delta PDC$ 



10. If the non-parallel sides of a trapezium are equal, prove that it is cyclic.



- Prove that the centre of the circle through A, B, C, D is the Point intersection of its diagonals.
- 12. A chord of a circle is equal to the radius of the circle. Find the angle subtended by the chord at a point on the minor arc and also at a point on the major arc.
- 13. In the given,  $\triangle$  ABC is equilateral. Find  $\angle$ BDC and  $\angle$ BEC
- 14. Two circles with centre O and O' intersect at two points A and B. A line PQ is drawn parallel to OO' through B intersecting the circles at P and Q. Prove that PQ = 2OO'.
- 15. In the adjoining figure, O is the centre of a circle. If AB and AC are chords of the circle such that AB = AC, OP  $\perp$  AB and OQ  $\perp$  AC, then prove that PB = QC.

