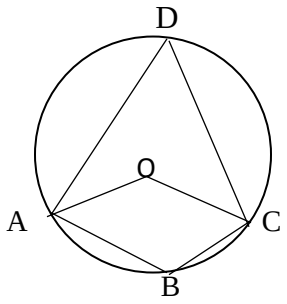
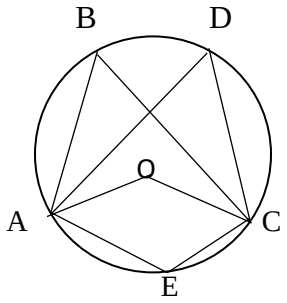
Ch-8(M.C.Q)



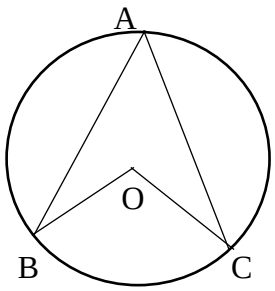
1. ABCD is a quadrilateral inscribed in a circle with centre O. If $\angle ABC$ = 120°, what is the value reflex$\angle AOC$?



2. In the above figure which one is correct?
   i. $\angle ABC = \angle ADC$
   ii. $\angle AOC = \angle ABC + \angle ADC$
   iii. $\angle ABC + \angle AEC$ = 2right angles.

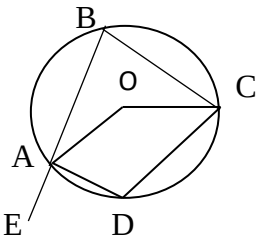
   Which one is correct?

a) i and ii, b)i and iii, c)ii and iii, d)i,ii and iii



In the circle ABC, ∠BAC = x° ∠BOC = x° + 20°

3. In the circle ABC, ∠BAC = What?
   a) 40° b) 30° c) 20° d) 10°
4. What is the value of angle in semi-circle?
   a) 60° b) 75° c) 90° d) 120°

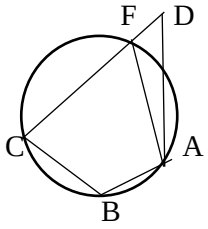


5. Observe the figure:

   i. $\angle ABC = \frac{1}{2}\angle AOC$ ii. $\angle AOC + \text{reflex } \angle AOC = 180°$ iii. $\angle ABC = \angle EAD$

   Which one is correct?

   a) i b) ii c) i and iii, d) ii and iii



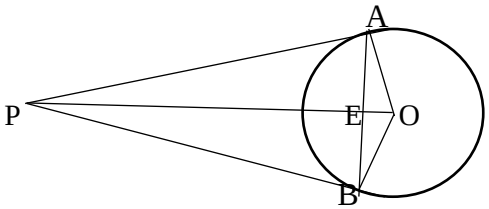
6. In figure $\angle ABC = 96°$ & $\angle FAD = 20°$ then $\angle ADF$ =?

   a. 64° b) 76° c) 84° d) 104°

7. Where does the circumcentre of a right angled triangle lie?
   a. Inside of the triangle
   b. Outside of the triangle
   c. On perpendicular line
   d. On hypotenuse

8. Which of the major arc of the circle in the angle of a quadrilateral inscribed?

   a) Right angle b) Acute angle c) Obtuse angle d) Reflex angle



Observe the figure and give the answer of the following questions:

9. If $\angle AOB = 120°$ then what is the value of $\angle APB$?

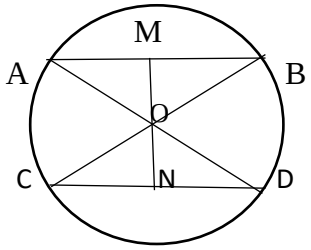
10. i. AE = BE ii. PA ⊥ AE iii. PA ⊥ OA

    Which one is correct?

    a) i and ii, b)i and iii, c)ii and iii, d)i,ii and iii

11. How many tangents can be drawn from a point inside of a circle?
12. How many ex-circles can be drawn with any triangle?
13. How many tangents can be drawn when two circles intersect externally?
14. How many tangents can be drawn at any point on a circle?
15. How many tangents can be drawn from a point outside of a circle?

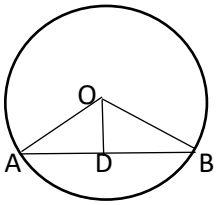
16. If two circles having radius 4cm & 5cm respectively intersect each other externally, then what is the distance between two centers?



From the answer to the question no.17, 18 & 19

In figure AB = CD, MN⊥AB, AB =8cm, ON = 3cm

17. AM=?
18. Radius of the circle?
19. Area of the circle?



Where OA = 4cm, OD = 3cm

20. What is the value of AB in cm?