Chapter – 4

Basic Geometrical Ideas

Worksheet – 3

1. _____ is the longest chord in the circle.
   a. Radius
   b. Diameter
   c. Circumference
   d. Sector

2. _____ semi-circles make 1 full circle?
   a. 1
   b. 2
   c. 3
   d. 4

3. A line inside a circle that has its end points lying on the circumference of the circle is called –
   a. Radius
   b. Chord
   c. Circumference
   d. Sector

4. A line that intersects a circle at minimum two points is called a –
   a. Radius
   b. Chord
   c. Secant
   d. Sector

5. Three or more lines in a plane or higher-dimensional space intersecting at a single point are called –
   a. Parallel lines
   b. Superimposed lines
   c. Intersecting lines
   d. Concurrent lines

6. Two or more points lying on the same line are called –
   a. Bilinear points
   b. Joined points
   c. Collinear points

    d. Similar points

7. The difference between the number of vertices of a Nonagon and a pentagon is –
   a. 1
   b. 2
   c. 3
   d. 4

8. An _____ divides an angle into two equal parts.
   a. Perpendicular bisector
   b. Median
   c. Angular bisector
   d. Radius

9. Match the column:

Column A	Column B
a. Point	i. Not a polygon
b. Closed curve	ii. No length, breadth, height.
c. Heptagon	iii. Sum of internal angle is 180°
d. Triangle	iv. Has 7 straight sides.

10. State true or false:
    a. An angle in a triangle can be equal or bigger than 180°.
    b. Sum of internal angles of polygon increases with increase in number of sides.
    c. Two sectors with same internal angle has different arc lengths.
    d. Two segments with same chord length has same arc lengths.

11. What are Intersecting lines?
12. What is 'secant' of a circle?
13. What are 'external and internal angle of a circle?
14. What is a 'semi-circle'?
15. What is 'Sector' of a circle?
16. What is 'Segment' of a circle?
17. What is the meaning of 'major segment of a circle?
18. What is the meaning of minor segment of a circle?

19. Explain why semi-circle is basically a segment made by diameter of the circle?

20. What will be the shape of the two halves of a square if they are divided diagonally and horizontally?