

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 –

- 1
- 2
- 3
- 4

8. An \_\_\_\_\_ divides an angle into two equal parts.

- Perpendicular bisector
- Median
- Angular bisector
- 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 $180^\circ$
d. Triangle	iv. Has 7 straight sides.

10. State true or false:

- An angle in a triangle can be equal or bigger than  $180^\circ$ .
- Sum of internal angles of polygon increases with increase in number of sides.
- Two sectors with same internal angle has different arc lengths.
- 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?