

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°
d. Triangle	iv. Has 7 straight sides.

10. State true or false:
- An angle in a triangle can be equal or bigger than 180° .
 - 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?

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