<u>Chapter – 4</u>

<u>Basic Geometrical Ideas</u>

<u>Worksheet – 1</u>

1. A ____ is an exact position or location on a plane surface.
   a. Point
   b. Line Segment
   c. Line
   d. Intersecting lines
2. A line segment has _____ endpoints.
   a. 0
   b. 1
   c. 2
   d. 3
3. A line contains _____ points in it.
   a. 0
   b. 1
   c. 100
   d. Infinite
4. Intersecting lines have _____ common points among them?
   a. 0
   b. 1
   c. 2
   d. 3
5. Two or more parallel lines have ____ common points among them?
   a. 0
   b. 1
   c. 2
   d. 3
6. A ray has _____ endpoints.
   a. 0
   b. 1
   c. 2
   d. 3

7. A curve which does not cross itself is called a –
   a. Simple curve
   b. Non-simple curve
   c. Closed curve
   d. Open curve
8. A curve which crosses itself at least once is called a –
   a. Simple curve
   b. Non-simple curve
   c. Closed curve
   d. Open curve
9. Match the column:

Column A	Column B
a. Square	i. Sum of length of its three sides.
b. Perimeter of triangle	ii. Same number of vertices as rectangle.
c. Internal angle of a rectangle	iii. Always constant.
d. Distance between two parallel lines	iv. Equal to 90°

10. State true or false in the following statements:
    a. An angle is formed by two rays.
    b. A triangle cannot have more than 3 vertices.
    c. The sum of vertices of a triangle and a pentagon is 9.
    d. Collinear points are always equidistant from each other.

11. What is a 'Line segment'?
12. What is a "Line"?
13. Describe 'Parallel lines' in detail?
14. What is the definition of a 'Curve'?
15. What is the meaning of 'Region of a curve'?
16. Make a list of polygons which have number of sides from 3 to 10?
17. What is a "Quadrilateral"?
18. What is a 'Circle'?
19. Explain 'Radius' of a circle?

20. Explain how the circumference of a circle will change if its radius is reduced to half?