

Chapter – 4  
Basic Geometrical Ideas  
Worksheet – 1

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 –
- Simple curve
  - Non-simple curve
  - Closed curve
  - Open curve
8. A curve which crosses itself at least once is called a –
- Simple curve
  - Non-simple curve
  - Closed curve
  - 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 $90^\circ$

10. State true or false in the following statements:
- An angle is formed by two rays.
  - A triangle cannot have more than 3 vertices.
  - The sum of vertices of a triangle and a pentagon is 9.
  - 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?

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