

Chapter – 4  
Basic Geometrical Ideas  
Worksheet – 2

1. A curve in which the beginning and endpoints are same is called –
  - a. Simple curve
  - b. Non-simple curve
  - c. Closed curve
  - d. Open curve
2. A curve in which the beginning and endpoints are different is called –
  - a. Simple curve
  - b. Non-simple curve
  - c. Closed curve
  - d. Open curve
3. A polygon with \_\_\_\_\_ vertices or corner points is a triangle.
  - a. 1
  - b. 3
  - c. 5
  - d. 6
4. A polygon with \_\_\_\_\_ vertices or corner points is a pentagon.
  - e. 1
  - f. 3
  - g. 5
  - h. 6
5. What is the difference between the number of vertices of a Decagon and a Heptagon?
  - a. 3
  - b. 4
  - c. 5
  - d. 6
6. A diameter divides a circle into \_\_\_\_\_ equal parts?
  - a. 1
  - b. 2
  - c. 3

- d. 4
7. Which of the following is not a polygon?
- Rectangle
  - Square
  - Pentagon
  - Circle
8. The center of \_\_\_\_\_ circles is same?
- Big
  - Small
  - Intersecting
  - Concentric
9. Match the column:
- | Column A                  | Column B   |
|---------------------------|--|
| a. Perpendicular bisector | i. Always equidistant from the circumference.        |
| b. Center of a circle     | ii. Similar to median but perpendicular to the base. |
| c. Angle of minor arc     | iii. More than $180^\circ$                           |
| d. Angle of major arc     | iv. Less than $180^\circ$                            |
10. State true or false:
- Common endpoint shared by two rays of angle is called vertex.
  - A Median is a line drawn from vertex of a triangle to its opposite side dividing it into two equal parts.
  - Arc of an angle in a circle decrease with increase in the value of angle.
  - Arc of an angle in a circle increases with decrease in the value of angle.
11. Describe what is ‘point’ in brief?
12. Explain what is a ‘Ray’?
13. Describe a ‘triangle’ in brief?
14. What is a ‘circumference’ of a circle?
15. What is ‘Diameter’ of a circle?
16. Explain how a ‘Median’ is different from an ‘Angle bisector’?
17. Explain why square and rectangle are different even though they are polygons with same number of sides?
18. What will effect occurs on the arms of an angle when the value of the angle is reduced or increased?

19. What is 'chord' of a circle?

20. What is 'arc' of a circle?