

CHAPTER-2 | Lines and Angles

QUIZ PART-04

1. The rays shown in the figure have how many endpoints?

- A. One
B. Two
C. None
D. Infinite (A)

Explanation: A ray has one endpoint and extends infinitely in one direction.

2. Which of the following is true about a ray?

- A. It has two endpoints
B. It extends infinitely in both directions
C. It has only one endpoint
D. It is a straight line (C)

Explanation: A ray has one endpoint and extends infinitely in one direction.

3. Can a ray be named with two points in reverse order?

- A. Yes, because both points are connected
B. No, the starting point must be first
C. Yes, if they lie on the same line
D. No, it's not possible (B)

Explanation: A ray must be named with the starting point first, as the direction of the ray matters.

4. Which of the following represents a correct naming of a ray?

- A. Ray AB
B. Ray BA
C. Ray AB with a bidirectional arrow
D. Both A and B are correct (A)

Explanation: A ray is named by its starting point followed by a second point. Ray AB is correct, but Ray BA is not, as the direction is important.

5. Can a ray be named as OB if it passes through point A as well?

- A. Yes, because both points lie on the ray
B. No, the starting point must be first
C. Yes, if the direction is the same
D. No, the points must be in a particular order (B)

Explanation: A ray must start at the first point, so naming it OB instead of OA is incorrect.

6. How many line segments can be drawn through two given points?

- A. One
B. Infinite
C. Two
D. None (A)

Explanation: There is only one line segment that can be drawn between two given points, as the segment is the shortest path between them.

7. What is the term used for the figure formed when two rays meet at a common point?

- A. Line
B. Angle
C. Triangle
D. Point (B)

Explanation: When two rays meet at a common point, they form an angle.

8. The correct representation for a line is:

- A. Two points with arrows on both sides
B. One point with an arrow
C. One point with no arrow
D. Two fixed points (A)

Explanation: A line is represented by two points with arrows on both sides to indicate its infinite extension in both directions.

9. A point lies on line AB. Which of the following is true?

- A. The point is between A and B
B. The point is above A and B
C. The point lies on the path of the line
D. The point is only at one of the endpoints (C)

Explanation: A point on a line lies along the path of the line, either between the endpoints or extending beyond them.

10. Which of the following is an example of collinear points?

- A. Points on a straight line
B. Points that form a triangle
C. Points that lie on different lines
D. Points that form a circle (A)

Explanation: Collinear points are points that lie on the same straight line.