

Point and Line Segment

A. Choose the correct answer:

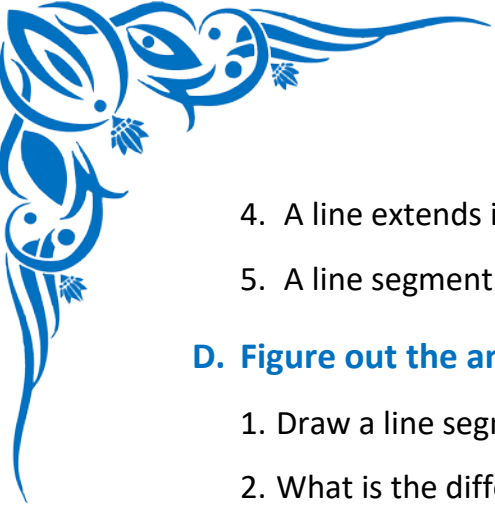
1. A point has _____.
 - a. Length
 - b. Width
 - c. No size
 - d. Depth
2. Which of the following represents a line segment?
 - a. A straight path with two fixed endpoints
 - b. A curve without endpoints
 - c. A broken line
 - d. A circle
3. How many endpoints does a line segment have?
 - a. One
 - b. Two
 - c. Three
 - d. Four
4. Which of the following is a feature of a line segment?
 - a. It has an endpoint at both ends
 - b. It goes on infinitely
 - c. It has no length
 - d. It is curved
5. A point is usually marked with a _____ on paper.
 - a. Circle
 - b. Square
 - c. Dot
 - d. Triangle

B. Write the Missing Terms to Complete the Sentences:

1. A _____ is a basic concept in geometry that has no length, width, or height.
2. A line segment is a part of a _____ with two endpoints.
3. The symbol used to represent a point is a _____.
4. A _____ line goes on infinitely in both directions.
5. A line segment is always _____ in length.

C. Mark each sentence with a True (✓) or False (X):

1. A line segment has one endpoint. _____
2. A point has no length or width. _____
3. A line segment can be curved. _____



4. A line extends infinitely in both directions. _____

5. A line segment is always straight. _____

D. Figure out the answers to these questions:

1. Draw a line segment and label its two endpoints.
2. What is the difference between a point and a line segment?
3. How many points are there on a line segment?
4. If a line has no endpoints, what is it called?
5. Can a line segment be longer than a line? Explain.

E. Challenge yourself with these questions:

1. How do you represent a point in a drawing?
2. If you have two points, how can you create a line segment between them?
3. Can a line segment ever be curved? Why or why not?
4. If a point is placed on the paper, what does it represent in geometry?
5. How would you explain the difference between a line and a line segment to a classmate?