

3.G.2 Identify, describe, and draw points, lines, and line segments using appropriate tools (e.g., ruler, straightedge, and technology), and use these terms when describing two-dimensional shapes.							
Reporting Category: Ge and Data Analysis	eometry, Measurement,	Subdomain: N/A					
3.G.2 Instructional Framework							
Assessed On:							
☐ Checkpoint 1	☐ Checkpoint 2	☐ Checkpoint 3	✓ Summative				
 Content Limits: Do not include references to parallel or perpendicular sides. Do not include parallelograms. Do not use the term "vertex". 							
Clarifications: • N/A							
Calculator Availability: Not Allowed							
Expected Academic Vo	cabulary: point, line, line	segment, endpoint, two-dir	nensional shape, figure				
E	xamples of Context and	Varying Difficulty Levels	3				
Context: Easy	Points, lines, and line segments are given as individual objects. Construction of items may include given points or partially completed figures.						
Context: Medium	Points, lines, and line segments are given as part of simple or familiar figures. Construction of items may be based on one constraint/property and fully constructed by the student.						
Context: Difficult	Points, lines and line segments may be shown as part of complex figures or in non-traditional orientations. Construction of items may be based on two or more constraints or properties and fully constructed by the student.						
Proficiency Level Descriptors and Example Items							
Looking Back: This concept is not speci- Indiana Academic standa level.	•	Looking Ahead: 4.G.2 ILEARN Item Specification					
Below Proficiency: Identify or describe points, lines, and line segments in isolation.							
Match each figure to the correct description. This is a DOK 1 item							

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ILEARN Item Specifications

		Has no endpoints and goes on foreve	betweer two	ts position n space		because students must match each of the given geometric objects to the correct property. This is an easy item		
		in space.	endpoint			because the objects		
	•					are given individually.		
	•—•							
	←							
Ar	nswer:							
		Has no endpoints and goes on forever in space.	Includes all the points between two endpoints.	An exact position in space.				
	•			X				
	•—•		X					
	←	X						
	•	·						
Approaching Proficiency: Identify and describe points and line segments in two-dimensional shapes. Identify and describe lines in one-dimensional figures.								
Harper builds a fence around her garden. Choose the line segment that appears to be the shortest.						This is a DOK 1 item because the student must identify a geometric object within a figure.		
						This is a medium difficulty item because the figure is simple.		

This is a DOK 2 item because students must

construct a geometric

difficulty item because

figure with given properties.

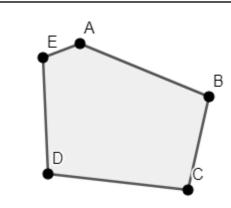
This is a medium

constraint/property.

students must construct the shape

using one



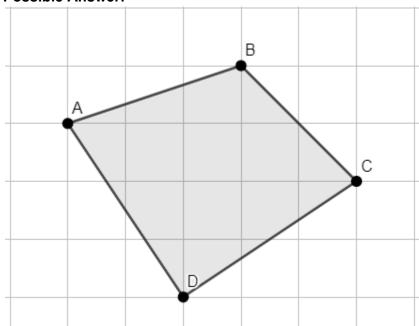


Answer: Line segment AE

At Proficiency: Construct two-dimensional shapes using points and line segments. Name each point and line segment. Identify the relationship between points, lines, and line segments in one-dimensional figures.

Part A: Use the point and line tools to construct a quadrilateral. Label the points.

Possible Answer:



Part B: Name the four line segments of the quadrilateral.

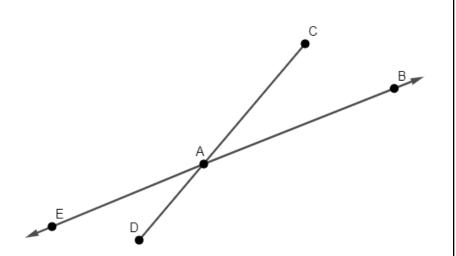
Answer: AB, BC, CD, AD

Which statement about the figure is true?

This is a DOK 2 item because students must

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identify points, lines, line segments, and their properties as part of a more complex figure.

This is a medium difficulty item because the points, lines and line segments are shown as part of a complex figure.

- a. The figure has line segment BE and line AC.
- b. The figure has point A and line segment AD.
- c. The figure has line *CD* and line *BE*.
- d. The figure has line AB and point AE.

Above Proficiency: Draw conclusions about the relationship between points, lines, and other attributes of two-dimensional shapes.

Part A: Fill in the table with the number of points and line segments that make up each figure.

This is a DOK 2 item because students must describe two-dimensional shapes based on the properties of points and line segments.

This is a medium difficulty item because the geometric objects are given as part of familiar figures.

	Number of Points	Number of Line Segments
A C		
D G F		
J K		

Answer: 3, 3; 4, 4; 5, 5

Part B: Using the information in the chart, how many points and line segments would a 7-sided shape have?

- a. 5 points, 5 line segments
- b. 6 points, 6 line segments
- c. 5 points, 6 line segments
- d. 7 points, 7 line segments