Unit: Coordinate Plane Student Handout 6

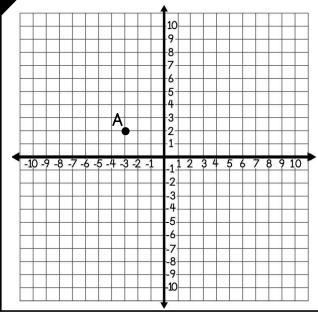
Name .	
Date	Pd

## CREATING FIGURES ON THE COORDINATE PLANE

FIGURES ON THE COORDINATE PLANE

- Geometric figures can be formed using \_\_\_\_\_ and
  - line segment: \_\_\_\_\_
    - end points: \_\_\_\_\_

Use the graph below to answer a-c.



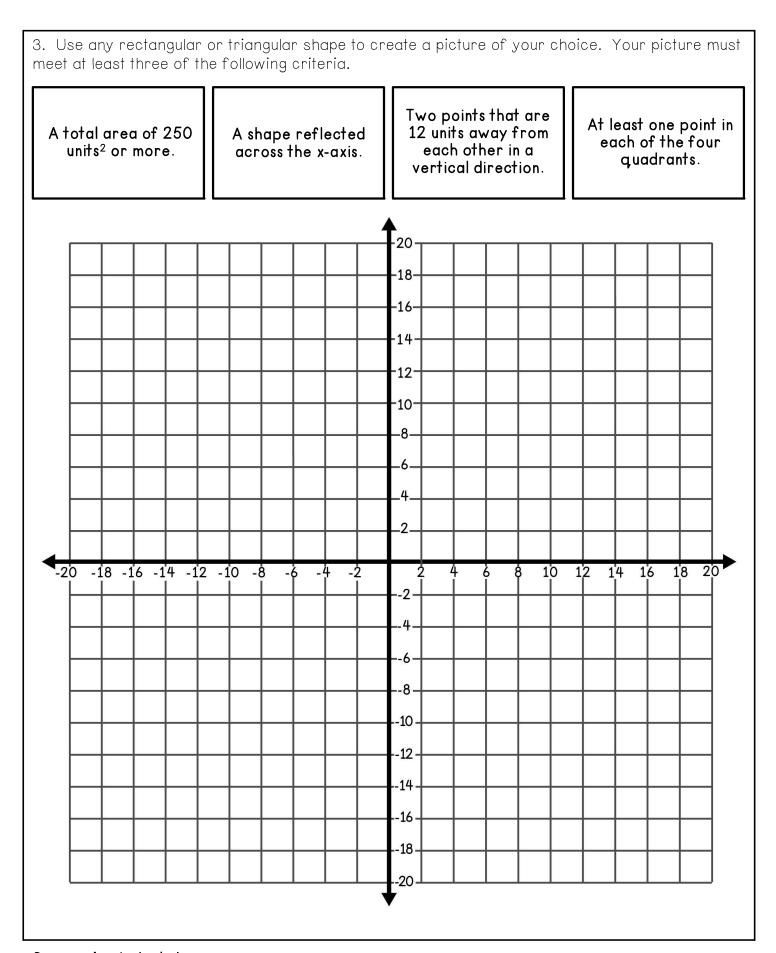
- a. Draw a line segment that extends 6 units from point A.
- b. Is it possible there is another line segment that also extends 6 units from point A? Why or why not?
- c. Determine all four points that could be possible endpoints.

2 Complete the table and sketch the figures on the coordinate plane below.

A	10 9 8 -7 -6 5 -4 -3 -2 -1
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1	-1 2 3 4 5 6 7 8 9 10 -2 -3 -4 -5 -6 -7 -8 -9 -10

	SIDE SIDE	PERIMETER	ADEA
A	3x3		
B		18 units	
C			30 units <sup>2</sup>
D	2x5		
E		16 units	

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Summarize today's lesson:

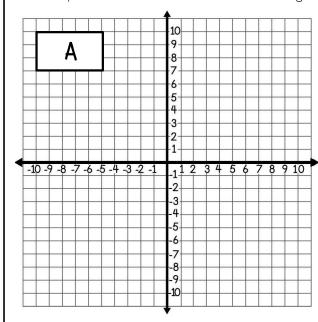
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Name _		
Date	Pd	

## CREATING FIGURES ON THE COORDINATE PLANE

Use your understanding of the coordinate plane to answer the questions below.

1. Complete the table and sketch the figures on the coordinate plane below.

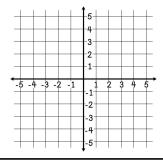


	SIDE SIDE	PERIMETER	ADEA
A	5x3		
₽		26 units	
۲			20 units <sup>2</sup>
D	6x2		
E		18 units	

2. The coordinates of one endpoint of a line segment are (-3, -5). The line segment is 11 units long. What are the other possible endpoints?

3. Two of the vertices of a rectangle are (6, 1) and (7, 1). If the rectangle has a perimeter of 18 units, then what are the coordinates of its other two vertices?

4. A square has a perimeter of 28 units, an area of 49 units<sup>2</sup>, and sides that are either horizontal or vertical. Two of the vertices are in quadrants where the x-value is negative. What are the possible coordinates of the square?



5. Point D is located at (-4, 4), point E is located at (4, 4), point F is located at (4, 2), and point G is located at (-4, 2). What is the perimeter of the object? What is the area of the object?

Perimeter: \_\_\_\_\_

Area: