Name		_ #
Date	Pd.	

## **Lesson 6-1-4 Learning Log and Activity**

## **LEARNING LOG:**

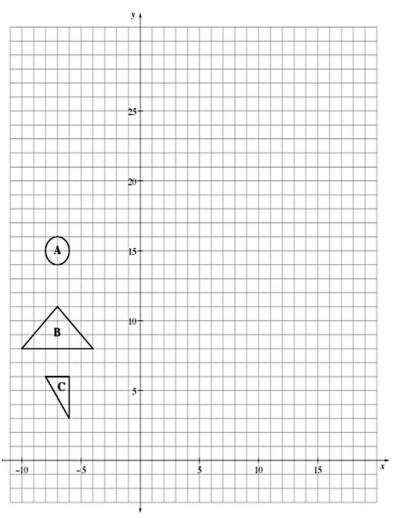
On a separate piece of paper, write what translate, rotate, and reflect mean in your own words. Be sure to use complete sentences and give an example.

## **ACTIVITY INSTRUCTIONS:**

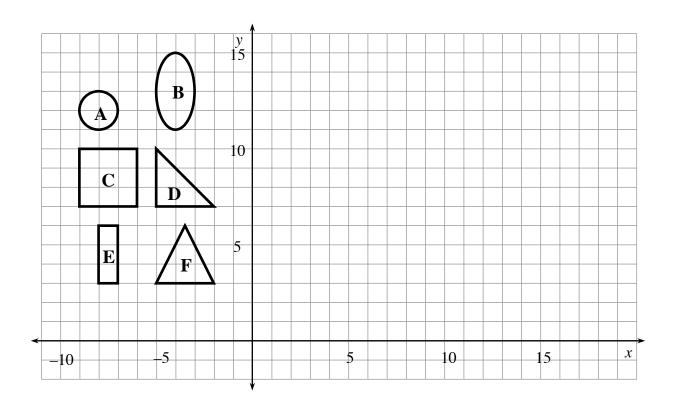
Follow the directions below to create a figure on the grid paper to the right.

- 1. Draw a rectangle with the vertices (5,0), (9,0), (9,8), and (5,8).
- 2. Translate circle A, so that the center is at (7,6). Describe how the shape has moved.
- 3. Rotate triangle C 180 degrees clockwise about point (-6,3). What are the new vertices?
- 4. Add 15 to each x-coordinate of rotated triangle C and graph the result. SHOW WORK!
- 5. Reflect triangle B about the y-axis. What are the new vertices?
- 6. Draw triangle D whose vertices are (-7,13), (-8,11), and (-6,11). Translate triangle D so its top vertex is at (7,4). Describe the translation in a complete sentence.
- 7. Translate triangle C to the right 11 units. Reflect this triangle about the horizontal line
- 8. Translate circle A, so that the x-coordinates increase by 13 units and the y-coordinates increase by 11 units.

What is your figure?



## Create a Design



Below, provide directions for creating your design. Be sure to include all necessary information.

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