

Name: \_\_\_\_\_ Hour: \_\_\_\_\_

# Reflection Symmetry Project

Chose half of the coordinate graph to create an image/picture.

- You must include at least 20 connected coordinate points.
- You may use the graph on the back of this paper or create your own graph on a piece of blank graph paper. It must include all 4 quadrants.
- Be creative ☺

After you have created half of your image/picture, complete the other half by reflecting the points over the x-axis or the y-axis depending on where you created your image.

After you have completed your picture, color and decorate it! Then answer the questions below:

1. Did you reflect your image over the x-axis or the y-axis? \_\_\_\_\_
2. What value changed as you reflected your coordinate points, the x-coordinate or the y-coordinate? \_\_\_\_\_
3. Choose one point on your original half of the image.
  - a. Label this point A.
  - b. List the ordered pair: \_\_\_\_\_
  - c. What is the ordered pair of the reflected point: \_\_\_\_\_
4. Choose another point on your original half of the image.
  - a. Label this point B.
  - b. List the ordered pair: \_\_\_\_\_
  - c. In which quadrant is this coordinate point located? \_\_\_\_\_
  - d. What is the ordered pair of the reflected point: \_\_\_\_\_
  - e. In which quadrant is the reflected coordinate point located in? \_\_\_\_\_
5. What is the rule when you reflect a point over the x-axis? \_\_\_\_\_  
\_\_\_\_\_
6. What is the rule when you reflect a point over the y-axis? \_\_\_\_\_  
\_\_\_\_\_

