

Name: _____

Date: _____

Transformation Project

For this project you will be drawing an original figure and creating multiple images by performing translations, reflections, rotations, and dilations. You will be given a few days in class to complete the project. Creativity and neatness count! For each transformation you make you must write 4 points in coordinate notation on the back of the graph - show your work. Your drawings should be neat and colorful. All points in your drawings must accurately portray the transformations. You will be graded on the following:

1. Translation _____ 4 points

- a. Original figure (Q2)
- b. Horizontal translation (Q1)
- c. Vertical translation (Q3)
- d. Complex translation (Q4)

2. Reflection _____ 4 points

- a. Original figure (Q2)
- b. Over the x-axis (Q3)
- c. Over the y-axis (Q1)

3. Rotation _____ 4 points

- a. Original figure (Q2)
- b. 90° clockwise (Q1)
- c. 90° counterclockwise (Q3)
- d. 180° (Q4)

4. Dilation _____ 4 points

- a. Original figure (all quadrants)
- b. Enlargement (all quadrants)
- c. Reduction (all quadrants)

5. Creativity and Neatness _____ 4 points

_____ /20 points