

Name: _____ Class: _____

Due Date: _____

TRANSFORMATIONS IN THE COORDINATE PLANE PROJECT

- Create a design of your own in any one quadrant
→ It cannot be a basic shape (for example, triangle, square, rectangle, etc)
- Label each vertex of the design with letters
- You are going to transform the original design into the other quadrants
- Translation: Decide on a rule and translate your original design and label the image with appropriate image labels (ex. A'B'...)
- Reflection: Decide whether you want to reflect your **original design** over the x-axis, y-axis, or other line you draw. Reflect the original design over the line of reflection and label the image with appropriate image labels (ex. A'B'...)
- Rotation: Decide on a degree of rotation (90, 180, 270) and direction (clockwise or counterclockwise) and rotate your original design and label the image with appropriate image labels (ex. A'B'...)
- A grid has been provided, cut out the grid and glue onto construction/other paper and title the project "Your Name's Transformations in the Coordinate Plane"
- Design and images should be colored, neat, and clear.
- Final project will include attached steps sheet completed, with the final transformations and rubric

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TRANSFORMATIONS IN THE COORDINATE PLANE PROJECT RUBRIC

| Steps | Points Possible | Points Earned |
|--|------------------------|----------------------|
| Original design is not a basic shape and is labeled | 6 | |
| Coordinates of original design listed | 6 | |
| Translation -Rule in words -Transformation notation -Correct Translation image labeled -Image Coordinates listed | 12 | |
| Reflection -Line of reflection chosen -Correct Reflection image labeled -Image Coordinates listed | 10 | |
| Rotation -Rotation degree and direction chosen -Correct Rotation image labeled -Image Coordinates listed | 10 | |
| Presentation -Colored -Neat -Pasted on construction/other paper with title | 6 | |
| | 50 | |

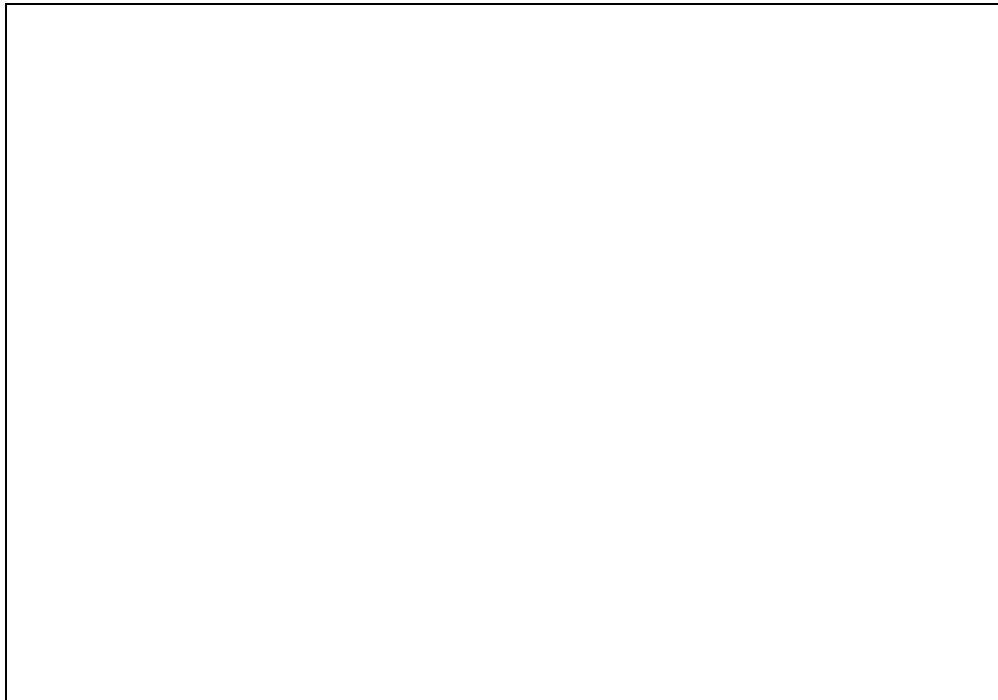
****5 points lost for every day late**

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TRANSFORMATIONS IN THE COORDINATE PLANE PROJECT

Step 1: Sketch your original design in the space below



Step 2: Draw your design on the coordinate grid attached with labels

Coordinates of your design:

Step 3: Translation rule and translate

In words: _____

Transformation notation: _____

Image coordinates:

Step 4: Reflection

Line of reflection : _____

Image coordinates:

Step 5: Rotation

Degree of rotation and direction: _____

Image coordinates:

Step 6: Color, neatly cut out and paste on construction/other paper and title
“ Your Name’s Transformations in the coordinate plane”

Step 7: Hand in final project with this steps paper completed and rubric.

