

Due Date: _____

Transformation Project

Directions: Follow each step closely. When asked to do a Transformation, you are always transforming the polygon from the previous step. Ex: In Step 7, you are transforming the polygon that you made in Step 6. Label each polygon to match the corresponding step number. List all coordinates for each transformation on a separate sheet of paper. Add color when you are finished with colored pencils, highlighters or markers to make the final project look nice and neat!

Step 1: Plot A (- 11 , 16) , B (- 7 , 16) , C (- 10 , 13) and D (- 8 , 13) in the coordinate plane and label each point.

Step 2: Reflect ABCD over they Y-axis.

Step 3: Translate ABCD ($x - 3$, $y - 6$).

Step 4: Rotate ABCD 90° counter-clockwise about the origin.

Step 5: Reflect ABCD over the x-axis.

Step 6: Translate ABCD ($x + 4$, $y + 10$).

Step 7: Rotate ABCD 180° clockwise about the origin.

Step 8: Dilate ABCD using a scale-factor of 2.

Step 9: Translate ABCD ($x - 12$, $y - 4$).

Step 10: Dilate ABCD using a scale factor of $\frac{1}{2}$.

Step 11: Rotate ABCD 180° clockwise about the origin.

Step 12: Translate ABCD (x , $y - 6$).

Rubric	Points	Points Received
Project includes 12 correctly graphed figures	50	
Project includes all coordinates for each figure on separate sheet of paper	30	
Project includes labeling of each figure	15	
Project includes color	5	

TRANSFORMATION PROJECT:

Name _____



