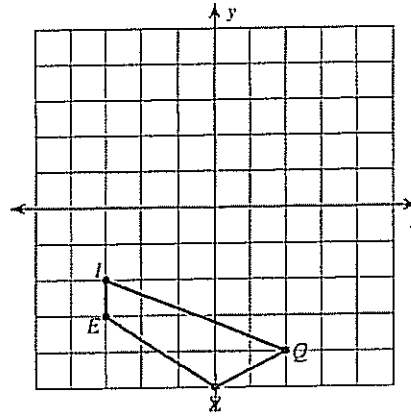
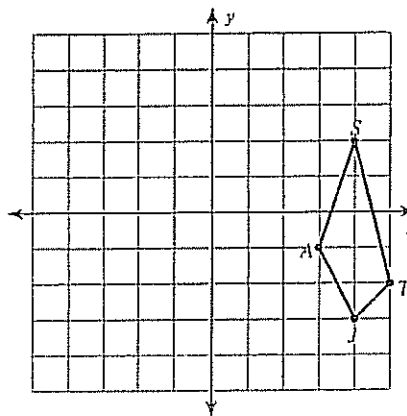


Multi-step Transformations

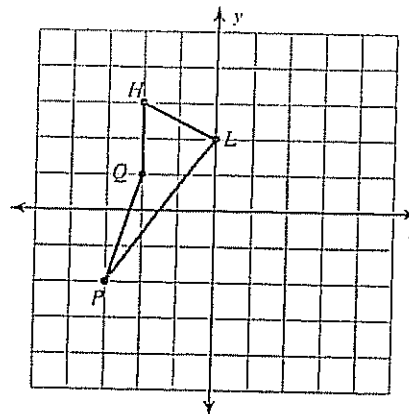
1. Reflect this shape over the x-axis and then Translate $(-1, -4)$.



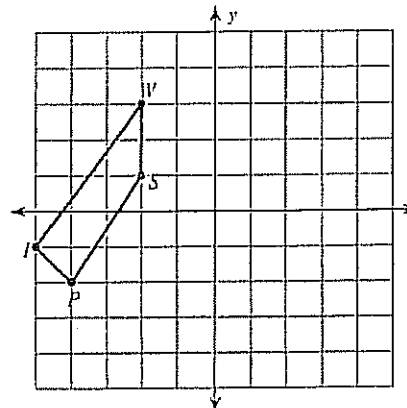
2. Translate the shape $(-3, 2)$ then Reflect over the y-axis.



3. Translate the shape $(3, 2)$ then Reflect over the x-axis.



4. Reflect the shape over the y-axis and then Translate $(-5, -2)$.



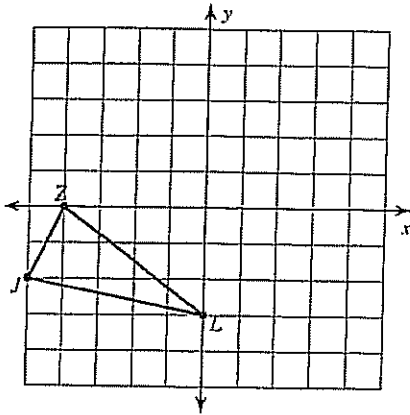
Multi-Transformation Worksheet

Name: _____

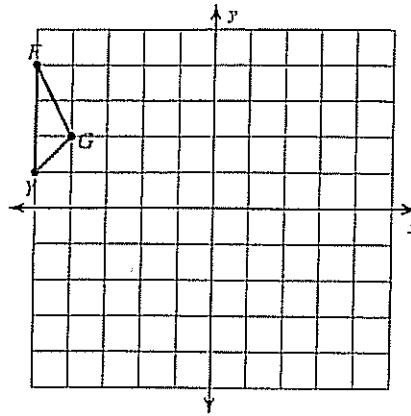
Date: _____ Period: _____

Graph the image of the figure using the transformations given.

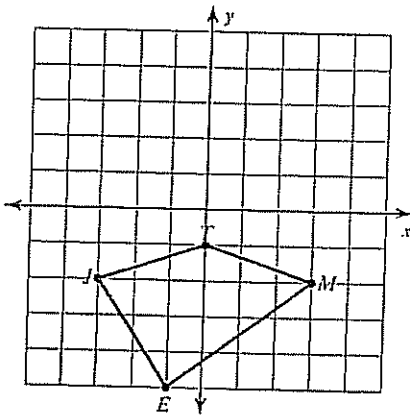
- 1) Rotation 90° counterclockwise about the origin. Then reflect $J'L'Z'$ across the y-axis.



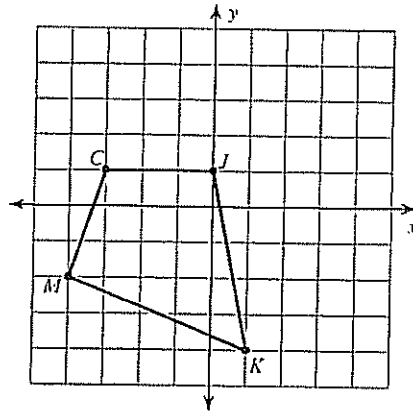
- 2) Translation $(4, -3)$. Then dilate $F'G'Y'$ using the dilation scale = 2.



- 3) Translation $(1, 1)$. Then rotate $J'T'M'E'$ 90° clockwise about the origin.

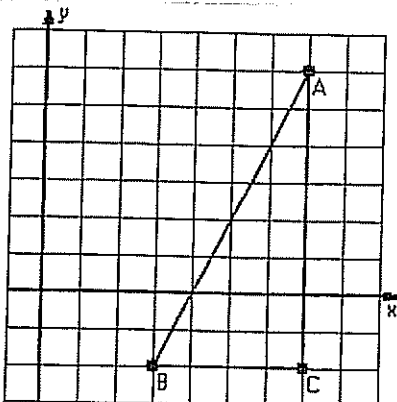


- 4) Reflection across the x-axis. Then translate $M'C'J'K'$ $(-1, -2)$.



Draw and label the transformations for each triangle.

- 5) Dilation scale = $\frac{1}{2}$. Translate $(-2, 3)$.



- 6) Rotate 90° clockwise about the origin

