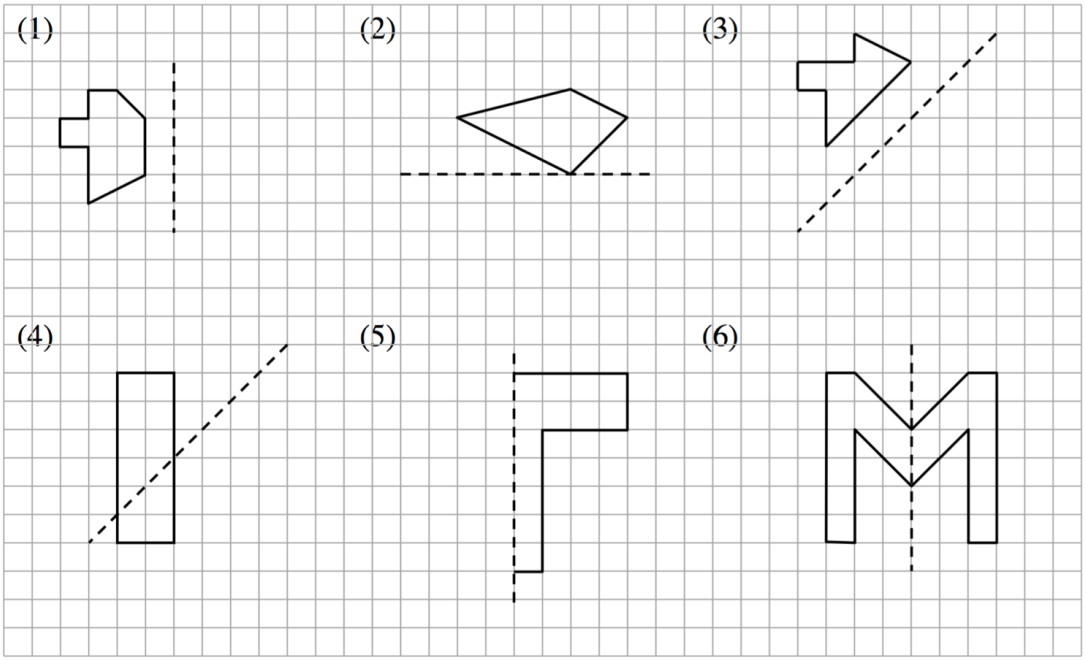
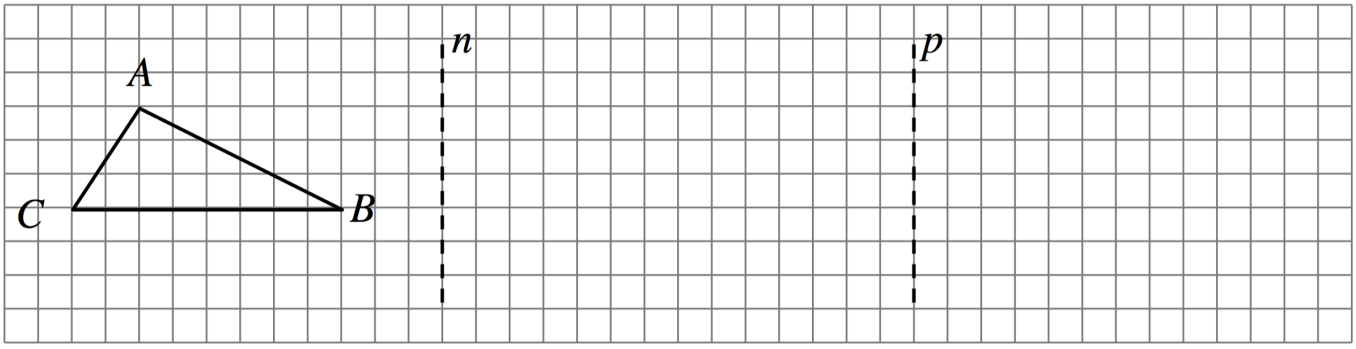
Name _____ Period: _____ Rigid Motion Introduction

1. Use your visualization skills to imagine the reflection across the given line of reflection. Then draw the reflection. Check your work by folding the paper along the line of reflection.



2. What happens when ΔABC <u>is reflected across **line *n***</u> to form $\Delta A'B'C'$ and *then* $\Delta A'B'C'$ is reflected across line p to form $\Delta A''B''C''$? First visualize the reflection to predict the result. Then, test your idea by of the result by drawing **both** reflections. Be sure to write in labels for each triangle.



3. Examine your results from question 2. Compare the original triangle ΔABC with the final result, $\Delta A''B''C''$. What single motion would change ΔABC to $\Delta A''B''C''$?

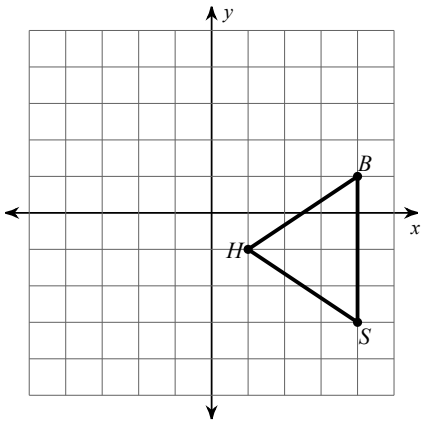
Geometry Name_____

Translations Introduction

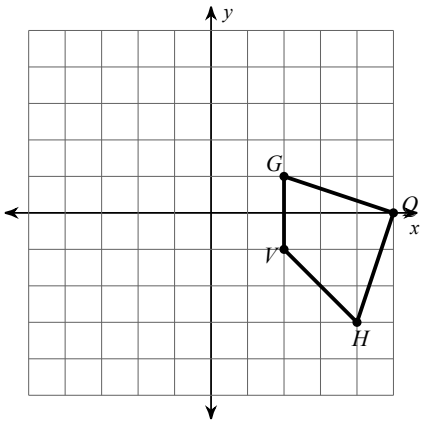
Period____

Graph the image of the figure using the transformation given.

1) translation: 3 units left

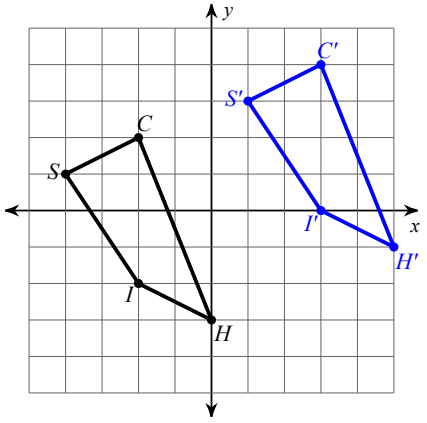


2) translation: 7 units left and 1 unit down

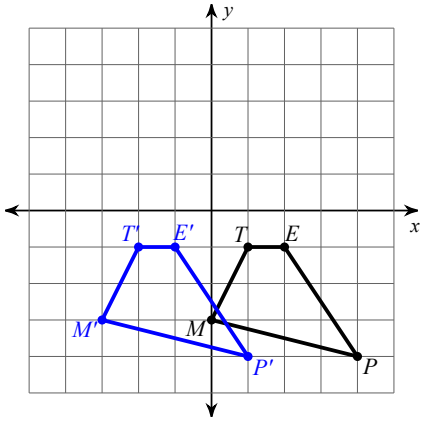


Write a rule to describe each transformation.

3)

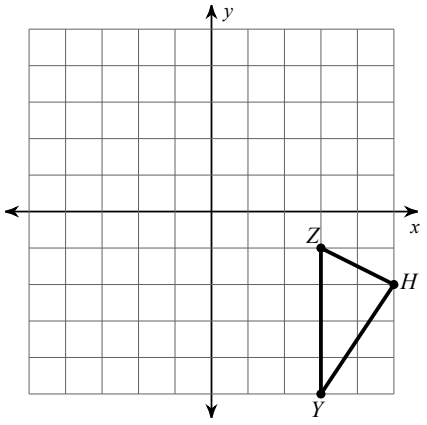


4)



Find the coordinates of the vertices of each figure after the given transformation.

5) translation: 3 units left and 5 units up



6) translation: 2 units left and 1 unit down