AGS 1 Name: _____

Geometry Final Review

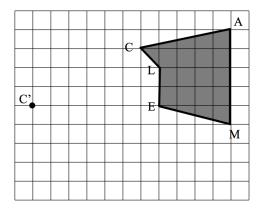
Transformations

- Translations
- Reflections
- Rotations

Symmetry/Rotational Symmetry

- 1. Translate each figure as indicated.
 - a. Translate CAMEL \rightarrow C'A'M'E'L' Then write the rule.

Rule:



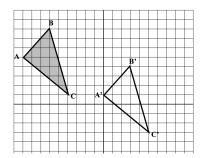
- c. Plot the points: B (-6, 2)
 - I (-2, 4) R (2, 1) D (-4, -2)

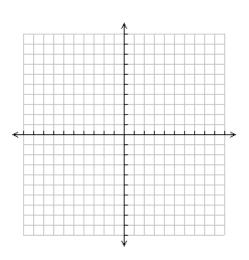
Create and label B'I'R'D' using the rule: (x + 3, y - 4)

Constructions Congruence/Classify Distance/Perimeter

> b. Write the rule that translates ABC \rightarrow A'B'C'

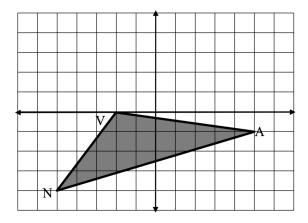
> > Rule:



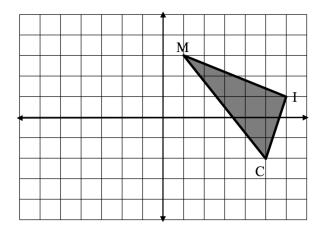


d. How do you know that a figure has been translated and not reflected or rotated?

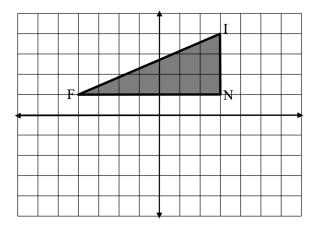
- 2. Reflect each figure as indicated. Draw the line of reflection.
 - a. Reflect VAN over the x-axis. Label V'A'N'



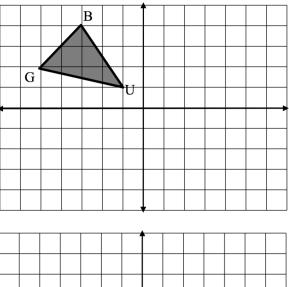
b. Reflect MIC over the line x = 2. Label M'I'C'



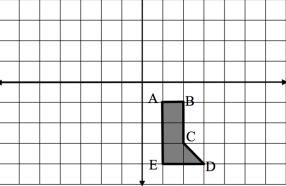
c. Reflect FIN over the line y = -x. Label F'I'N'



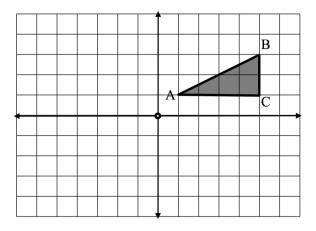
- 3. Rotate each figure as indicated.
 - a. Rotate BUG 180°. Label B'U'G'



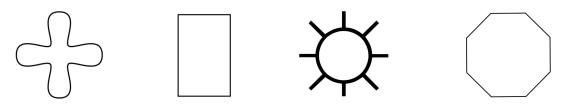
b. Rotate ABCDE 90° counter-clockwise around the origin. Label A'B'C'D'E'



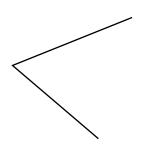
c. Rotate ABC 90° clockwise around the point (1, 3). Label A'B'C'

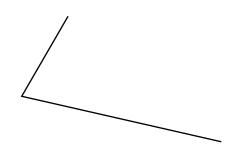


- 4. For each figure:
 - a. Determine the total number of lines of symmetry.
 - b. Determine the angle of rotational symmetry.

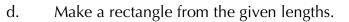


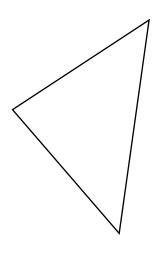
- 5. Construct each figure as indicated.
 - a. Bisect the given angle.
- b. Construct a rhombus from the given angle.



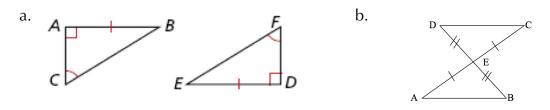


c. Copy the triangle

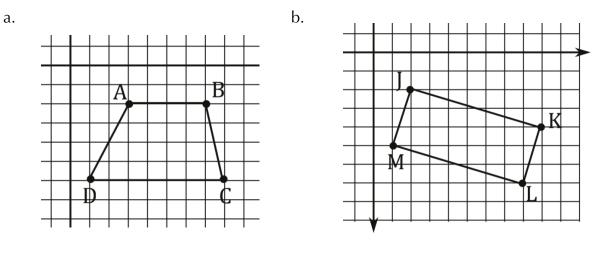




6. Give a basic proof for each pair of triangles.



7. Classify each quadrilateral and give its perimeter.



Perimeter:

Shape:

Perimeter:

Shape: