Cornrow Software Pretest

A: Choose a word from the given list and match it with its correct definition.

Reflection	Iteration	Rotation
Dilation	Translation	

1. Repeating an operation in a loop (such as making a copy of a copy) a given number of times _____.

2. A transformation that matches each point on a figure with its mirror image over a line _____.

3. A transformation that turns a figure (clockwise or counterclockwise) around a point _____.

4. A transformation that slides each point on a figure to a point a given distance and direction from the original points _____.

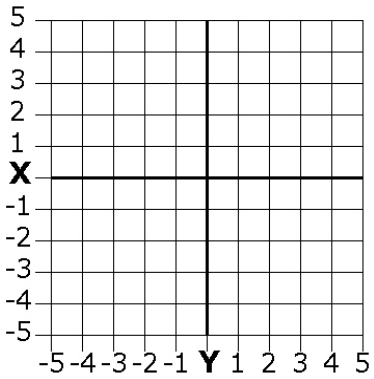
5. A transformation that causes a figure to grow larger or smaller with each iteration _____.

B. There are three line segments that form the picture of a flag on a stick. Plot the following points on the grid below to make the flag:

Line 1 = 0, 0 and 5, 5

Line 2 = 3, 3 and 5, 3

Line 3 = 5, 3 and 5, 5

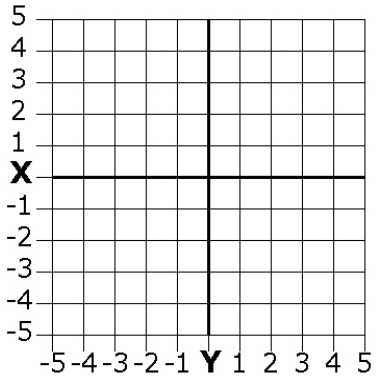


C. Write the coordinates that would draw the image of this flag for a reflection over the *y* axis.

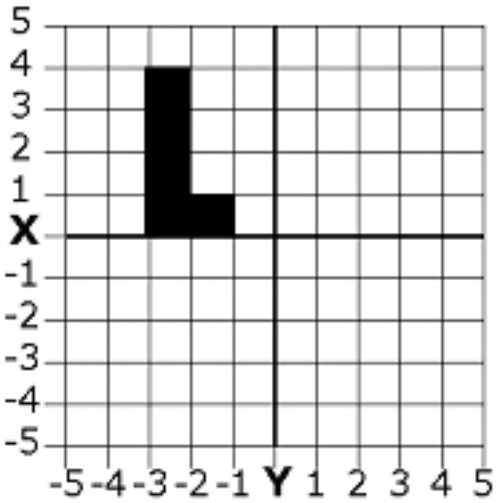
Line 1 =

Line 2 =

Line 3 =



D. The "L" shape is four inches tall. We dilate the shape by 50%. How tall is it now?



E. The first "L" shape below has no rotation applied to it. The second has been rotated by 10 degrees. If we apply the same rotation again to the second "L" shape, what will be its new angle?