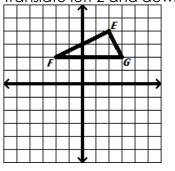
EOC Review: Unit 1 Transformations

Name:	
Period:	Date:

- The rule $(x, y) \rightarrow (x + 8, y 12)$ is applied to a figure. 1.
- **a.** Find the image of the point F (10, 3). **b.** Find the <u>pre</u>-image of the point G' (10, 3).

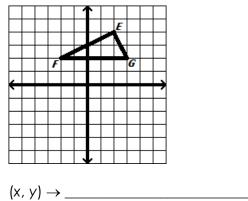
DRAW the image and write an algebraic <u>RULE</u> for the transformation. Don't forget to LABEL the vertices of the image!

2. Translate left 2 and down 7.

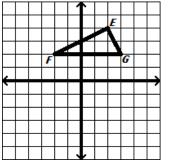




- **4.** Reflect across the line y = -x.
 - $(\mathsf{X},\,\mathsf{Y})\to_$
- 6. Rotate 90° clockwise around the origin.

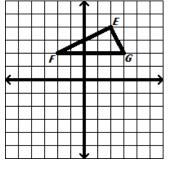


3. Reflect across the x-axis.



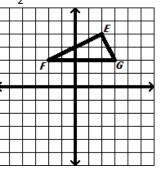


5. Rotate 180° around the origin.



 $(\mathsf{X},\,\mathsf{Y})\to____$

7. Dilate from the origin by a scale factor of $\frac{3}{2}$

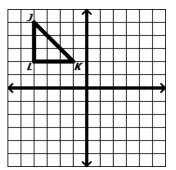


<u>DRAW</u> the image. Don't forget to LABEL the vertices of the image!

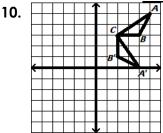
8. Reflect across the line y = 1.

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9. Rotate 90° clockwise around the origin, then reflect $\Delta J'K'L'$ across the x-axis.



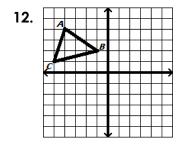
Describe (in words) the transformation that maps $\triangle ABC$ onto $\triangle A'B'C'$. <u>Make sure to fully</u> describe the transformation (state the center of rotation, etc.)



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Fill in the blanks to describe transformations that would map this rectangle onto itself:

- **a.** Reflect across the line y = _____
- **b.** Reflect across the line x = _____
- c. Rotate _____° around the point ______



a. Draw the result of the following transformations: Reflect $\triangle ABC$ across the x-axis, then translate $\triangle A'B'C'$ up 2

Reflect $\triangle ABC$ across the x-axis, then translate $\triangle A'B'C'$ up 2 units.

(You are only required to draw the final triangle: $\Delta A''B''C''$)

b. Describe a single transformation that maps $\triangle ABC$ onto $\triangle A''B''C''$.