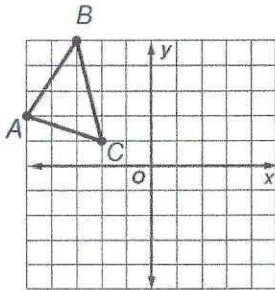


Name _____
Mrs. Roubos

Date _____
8R Period _____

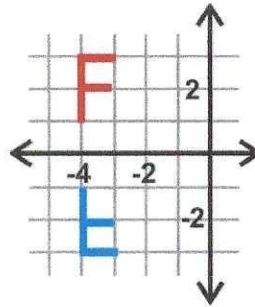
Classwork Day 3

1. Triangle ABC is translated 3 units right and 3 units down. What are the coordinates of A' ?



**Steps: _____

2. The figures below are transformations of one another? How was the F in quadrant II transformed to make the F in quadrant III?



**Steps: _____

3. What are the coordinates of B' , the image of $B(0, 4)$ after a dilation with a scale factor of 6?

**Steps: _____

4. What is the image of $(6, -4)$ under a dilation of 3?

**Steps: _____

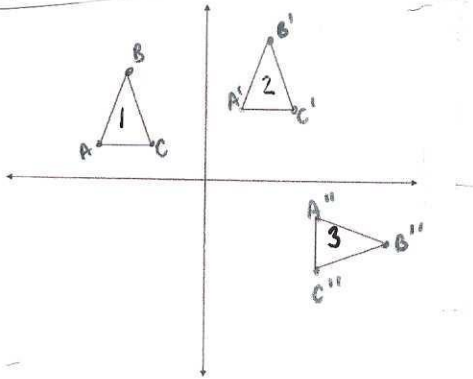
5. Under what type of transformation can the image be a different size than the original figure?

**Steps: _____

6. Point A has coordinates $(6, 2)$. After a dilation, the coordinates of point A' are $(18, 6)$. What is the scale factor for the dilation?

**Steps: _____

7. Which sequence of transformations is performed so that Figure 1 is congruent to figure 3?

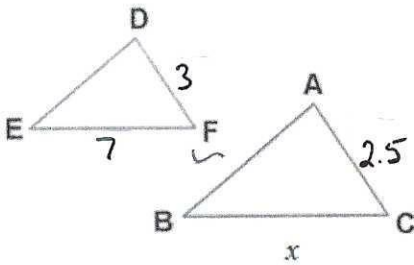


**Steps: _____

8. What is the image of Point A(2,3) when rotated 180° about the origin?

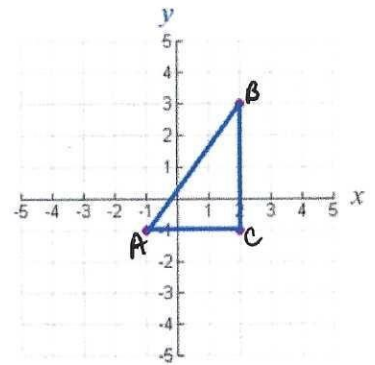
**Steps: _____

9. Find the missing side length, x , to the nearest tenth.



**Steps: _____

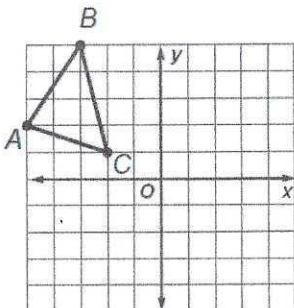
10. If you translate the figure one unit down and two units left, what are the coordinates of the new image?



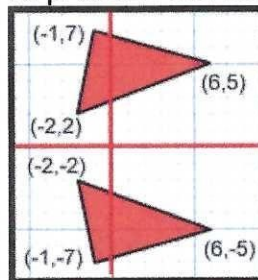
**Steps: _____

Now you try!!!

11. Triangle ABC is translated 5 units right and 3 units down. What are the coordinates of A' ?



12. The figures below are transformations of one another? How was the top triangle transformed to produce the bottom?



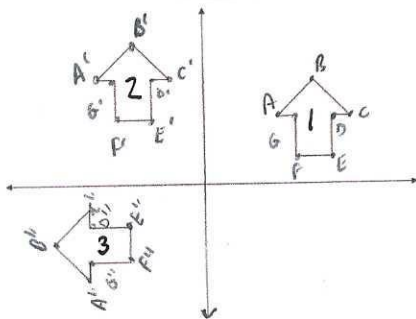
13. What are the coordinates of B' , the image of $B(0, 9)$ after a dilation with a scale factor of 3?

14. What is the image of $(4, -3)$ under a dilation of 5?

15. A teacher wants to make paper stars for her students. She wants them to all be the same size. She traces around a pattern for the star several times on a sheet of paper. What transformation should she NOT use to make the stars?

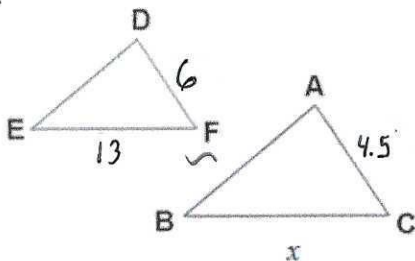
16. Point A has coordinates $(3, 5)$. After a dilation, the coordinates of point A' are $(21, 35)$. What is the scale factor for the dilation?

17. Which sequence of transformations is performed so that Figure 1 is congruent to figure 3?



18. What is the image of Point $A(-6, 4)$ when rotated 180° about the origin?

19. Find the missing side length, x , to the nearest tenth.



20. If you translate the figure three units down and one unit right, what are the coordinates of the new image?

