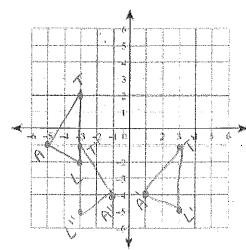
Date:_____

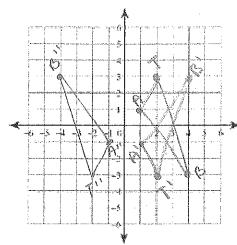
Composite Transformation, Area, and Perimeter Review

Part I: Composite Transformations:

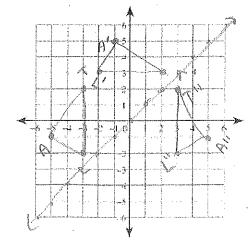
a) Translate $\triangle ALT$ if A(-5, -1), L(-3, -2), T(-3, 2) by the rule $(x, y) \rightarrow (x + 6, y - 3)$, then reflect the image over the y-axis.



b) Reflect $\triangle TAB$ if T(2, 3), A(1, 1), and B(4, -3) over the x-axis, then reflect the image over the y-axis.



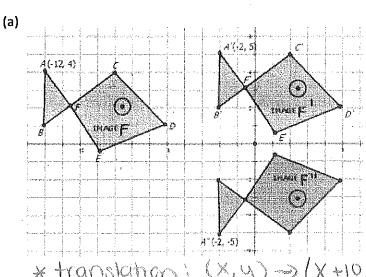
c) Rotate $\triangle ALT$ if A(-5, -1), L(-3, -2), T(-3, 2) 90° clockwise about the origin, then reflect the image over the line y = x.



$$A'(-1, 5)$$

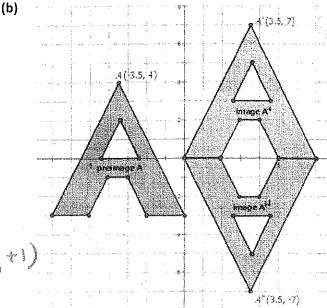
 $L'(-2, 3)$
 $T'(2, 3)$

Part II: Describe the Transformation



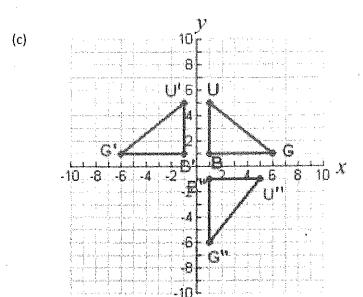
* translation: (x,y) -> (x+10,y+1)

* reflection over x-axis



* translation: (x,y) -> (x+7,y+3)

* reflection over x-axis

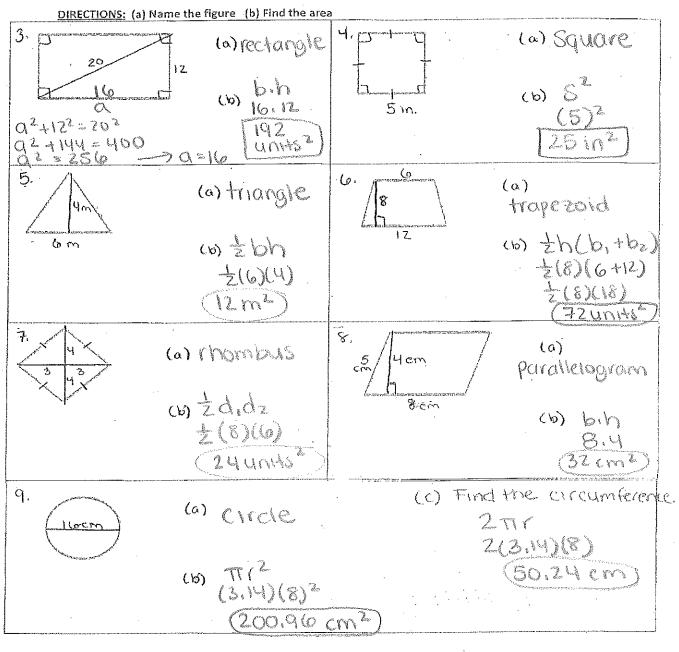


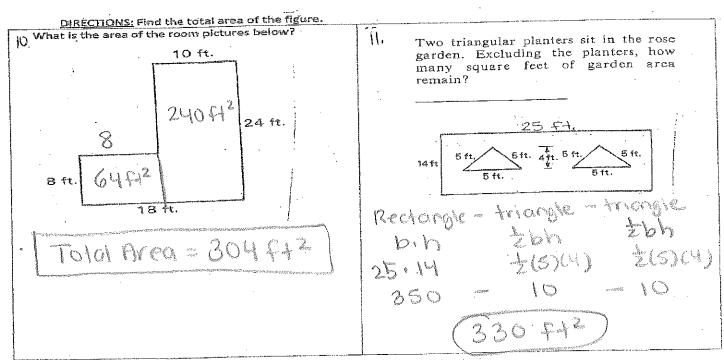
x reflection over y-axis

* reflection over y=x

Part III: Perimeter and Area

DIRECTIONS: Write an algebraic equation to find x. Then find the missing sides. (x-6) F1 11-6 A=b.h 15FF) 20=4(x-6) 4 ft. $20 = 41 \times -24$ Area = 20 ft^2 X+3+X+3X+Z=120

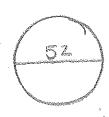




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Part IV: Word Problems

1. What is the area of a circular rose garden that measures 52 feet through the center?

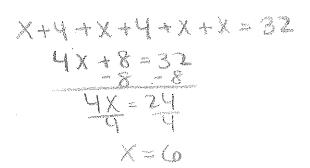


3.14(20)² (2122.64 ft²)

2. The perimeter of a rectangle is 32 feet. Find the dimensions if the length is four feet longer than the width.

length = X+4 10 ft width = X 6ft



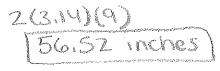




3. Mary bought an 18 inch large pizza.

(A) How many inches of crust is there?

aram ference 2550



(B) A pizza pie is always cut into 8 slices. How many inches of crust is there on each slice?

17,065 in

4. A triangle has a perimeter of 50. If two of its sides are equal and the third side is five more than the equal sides, what is the length of the third side?

