Study	Guide			
.)		Name:	La La	

Transformations Review

I. **Matching:** Match the terms in the left column with the correct definitions or examples in the right column.

1. <u>e</u>	Reflection	a/(x, y)
2. <u>h</u>	Translation	b. where the x and y axes intersect (0,0)
3	Rotation	% a turn that moves 1 quadrant
4	X axis	d the same direction as a clock
5. <u>f</u>	Y axis	e/moving a figure by flipping it in a coordinate grid
6. <u>b</u>	Origin	f. the vertical axis (up and down)
7	Coordinate plane	g. a numbered grid with x and y axes
8	90 degree rotation	h/moving a figure by sliding it in a coordinate grid
9. d	Clockwise	j. the horizontal axis (across)
10	Ordered Pair	j/moving a figure by turning it in a coordinate grid

II. Application:

- On the coordinate grids provided, transform the figures as directed.
- Use prime notation to label each point on the coordinate grid.
- Write the ordered pairs for the coordinates of the new image below for each problem.

Plane 1 - Translate triangle ABC x-4, y+1. Left 4 cond up 1 A' (-3,2) B' (-4,-1) C' (-2,-1)

Plane 2 - Reflect trapezoid DEFG over the x axis.

D'(1,1) = (2,5) = (4,5) = (5,1)

Plane 3 - Rotate parallelogram HIJK over-the 180 degrees.

H'(4,1) I'(1,1) I'(2,4) K'(5,4)

Plane 4 - Dilate square LMNO by a scale factor of 2.

L'(-1,0) M(1,-2) C(-1,-2) L'(-2,0) M'(2,0) N'(2,-4) O'(-2,-4)

Plane 5 - Rotate rectangle PQRS 90 degrees clockwise about the origin.

 $P'(4_3-1)$ $Q'(1_3-3)$ $R'(1_3-3)$ $S'(1_3-1)$

Plane 6 - Dilate square TUVW 189 by a scale factor of $\frac{1}{2}$.

T(-4,4)

U(-2,4)

V(-2,2)

W'(-2,1)

Plane 7 - Plot triangle XYZ on the coordinate grid using the following coordinates

X (-4, 4) Y (-4, -2) Z (-1, -2)

Reflect the figure over the y-axis, then translate x-2, y+1.

wing coordinates: X = (-4, 4) (-4, 4) (-4, 4) (-4, -2) (-4, -2) (-4, -2) (-4, -2) (-4, -2) (-1, -2) (-1, -2) (-1, -2)Plane 8 - The pre-image and image have been graphed. Explain the transformations that

were applied to get to the image.

reflect ythenx I right

(MATTER) Sright I down









