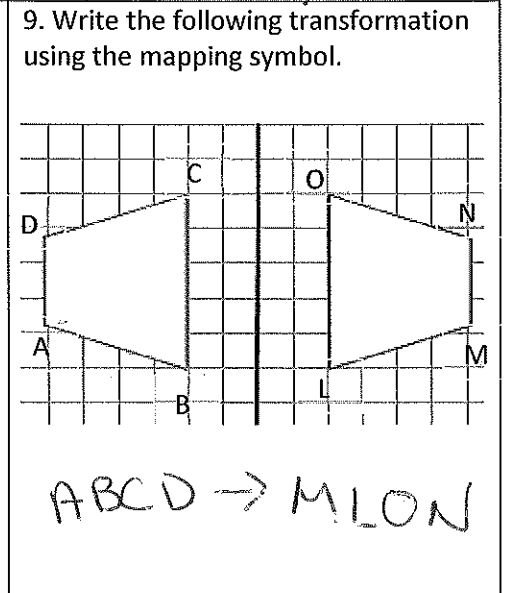
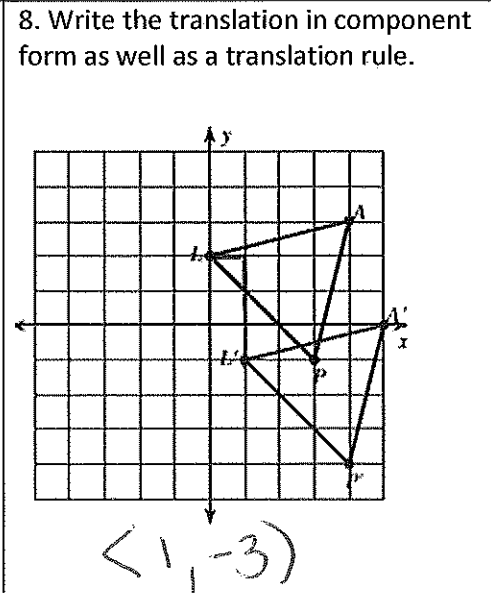
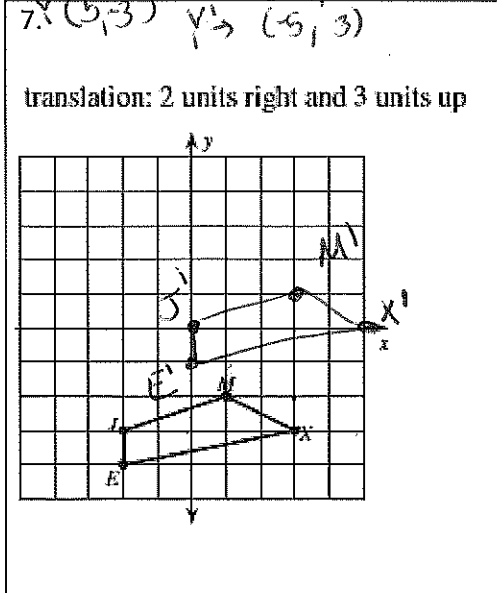
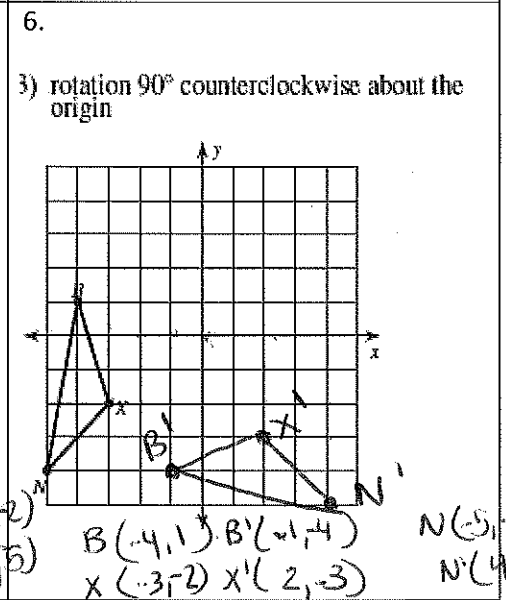
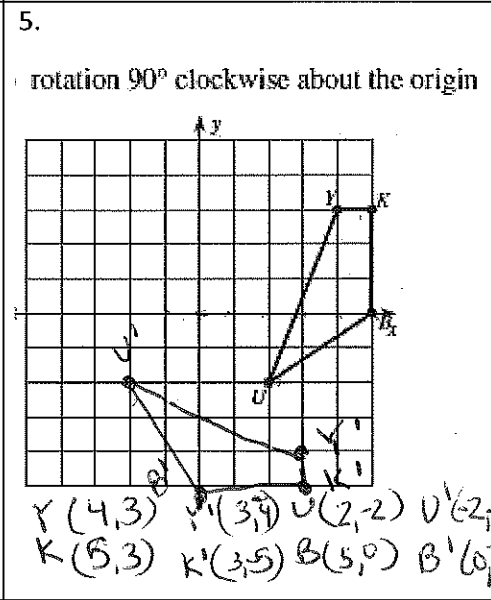
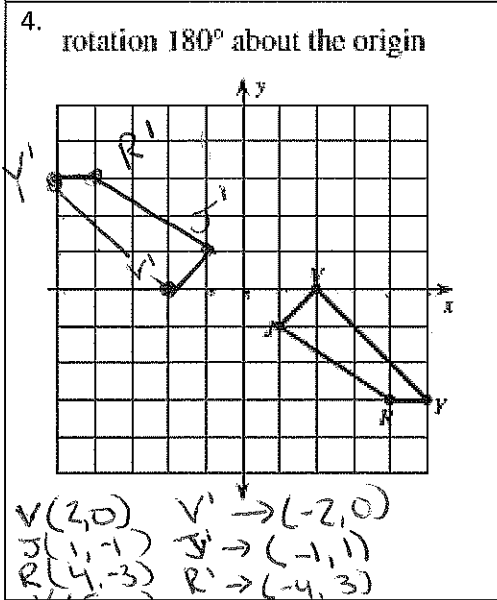
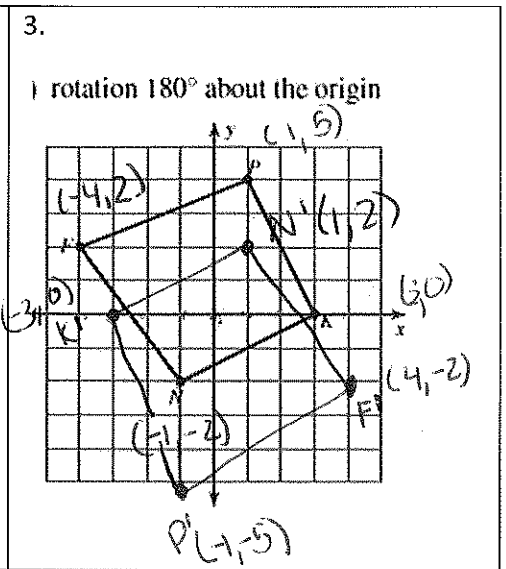
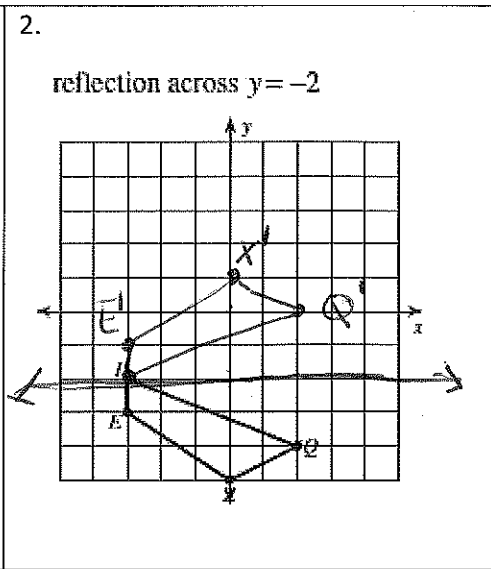
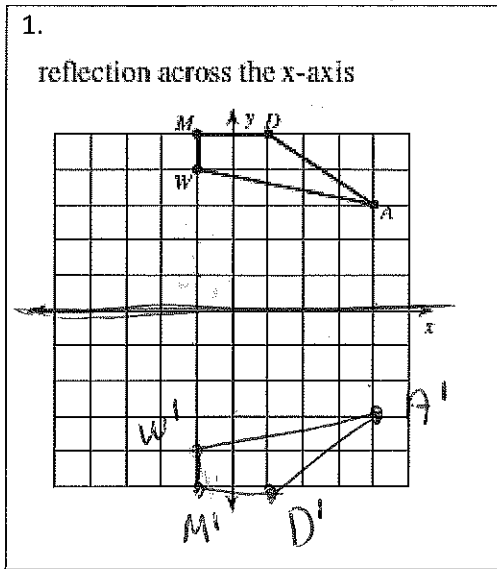


Name: Answer Key

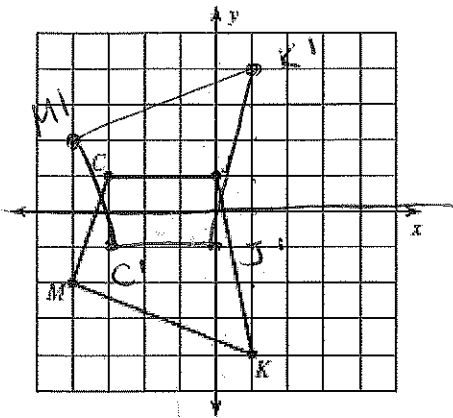
Period: \_\_\_\_\_



MORE PRACTICE.

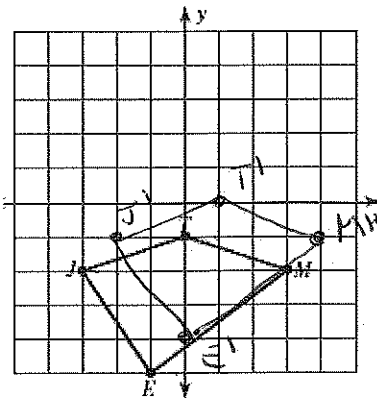
10.

reflection across the x-axis



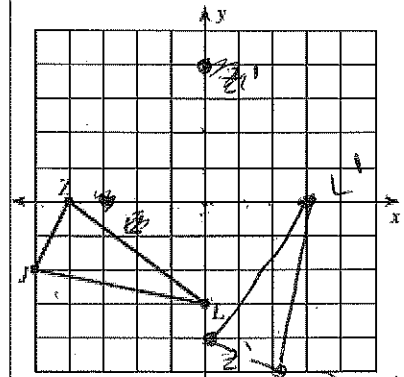
11.

translation: 1 unit right and 1 unit up



12.

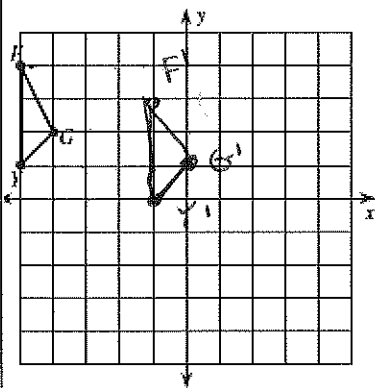
rotation 90° counterclockwise about the origin



$J(-5, -2) \rightarrow J'(2, -5)$   $L(0, -3) \rightarrow L'(+3, 0)$   
 $Z(-4, 0) \rightarrow Z'(0, 4)$

13.

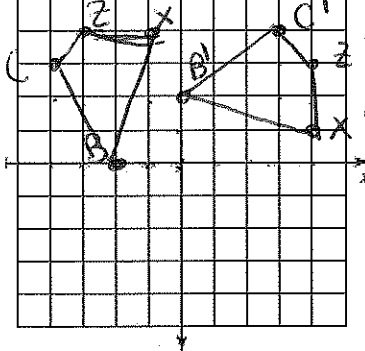
translation: 4 units right and 1 unit down



14.

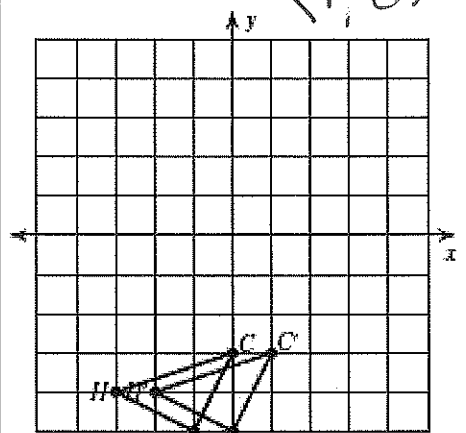
rotation 90° clockwise about the origin

$B(-2, 0), C(-4, 3), Z(-3, 4), X(-1, 4)$   
 $B'(0, 2), C'(3, 4), Z'(4, 3), X'(4, 1)$



15. Write the translation in component form as well as a translation rule.

$\langle 1, 0 \rangle$



$(x, y) \rightarrow (x+1, y)$

16. Find the coordinates of the vertices after the transformation.

rotation 180° about the origin  
 $E(2, -2), J(1, 2), R(3, 3), S(5, 2)$

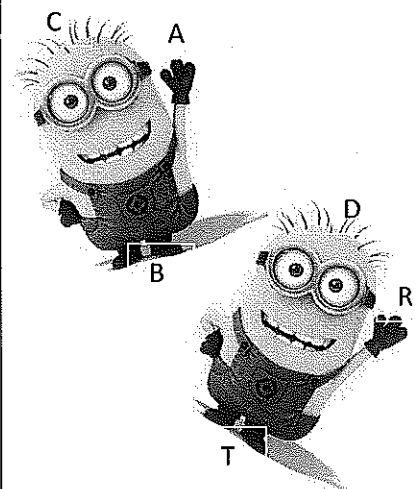
$E'(-2, 2)$   
 $J'(-1, -2)$   
 $R'(-3, -3)$   
 $S'(-5, -2)$

17. Find the coordinates of the vertices after the transformation.

translation: 6 units right and 3 units down  
 $S(-3, 3), C(-1, 4), W(-2, -1)$

$S'(3, 0)$   
 $C'(5, 1)$   
 $W'(4, -4)$

18. Write the following transformation using the mapping symbol.



$ABC \rightarrow RTD$