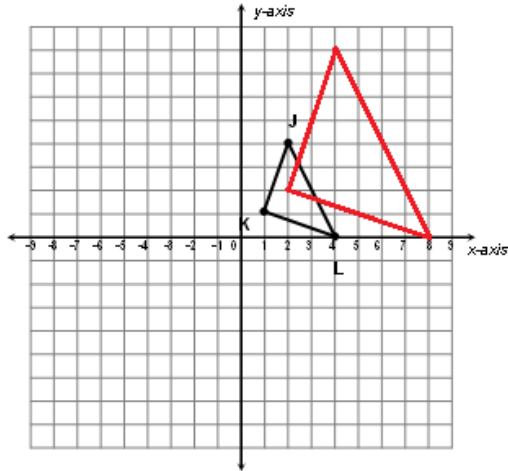


### Dilations/ Translations Worksheet Answer Key

1. enlarge, shrink
2. smaller
3. bigger
- 4.



J: (2,4)

J': (4,8)

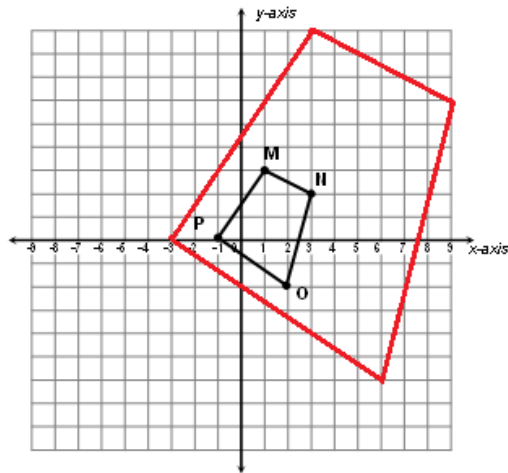
K: (1,1)

K': (2,2)

L: (4,0)

L': (8,0)

5.



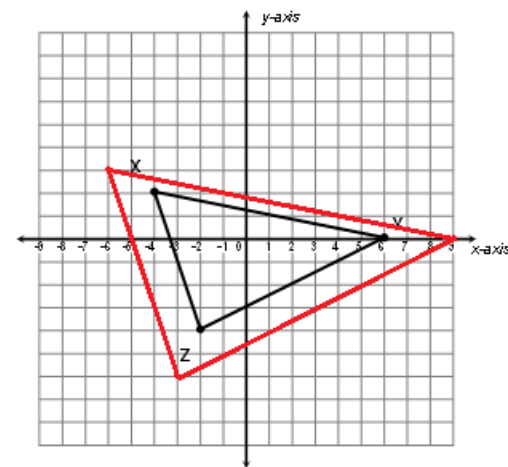
M: (1,3) M': (3,9)

N: (3,2) N': (9,6)

O: (2,-2) O': (6,-6)

P: (-1,0) P': (-3,0)

6.



X: (-4,2)

X': (-6,3)

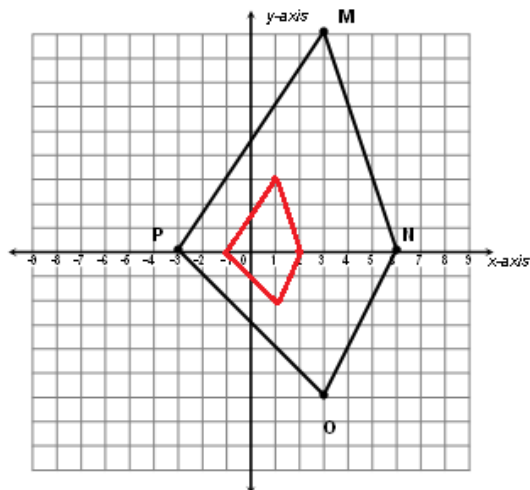
Y: (6,0)

Y': (9,0)

Z: (-2,-4)

Z': (-3,-6)

7.



M: (3,9) M': (1,3)

N: (6,0) N': (2,0)

O: (3,-6) O': (1,-2)

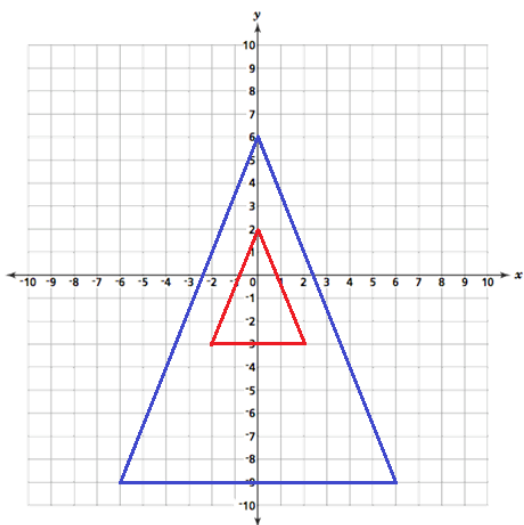
P: (-3,0) P': (-1,0)

8. reduction, scale factor  $1/3$

9.  $S'=(0,6)$ ,  $T'=(6,-9)$

**Part B**

On the grid below, draw triangle RST and triangle R'S'T'.

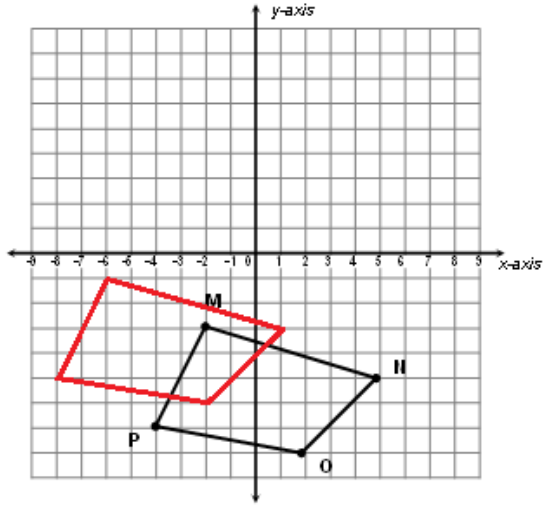


10. slide

11. translated 8 units to the left  $(x,y) \rightarrow (x-8,y)$

12. translated 3 units to the right and 1 unit down  $(x,y) \rightarrow (x+3,y-1)$

13.



M': (-6,-1)

N': (1,-3)

O': (-2,-6)

P': (-8,-5)

14. X' = (-5, 5)

Y' is in quadrant I

