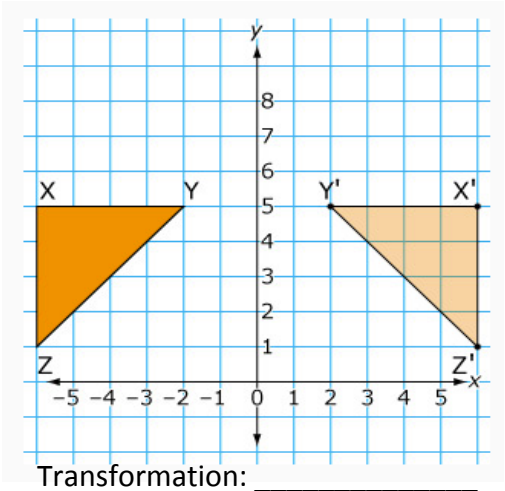
Unit 5: Triangles

Quiz Study Guide

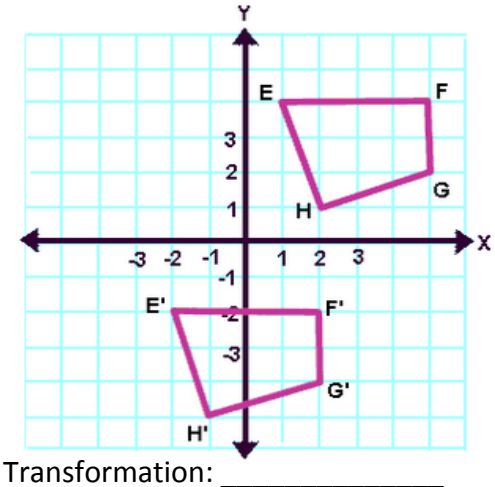
Directions: Describe the <u>specific</u> transformation that occurred in each (e.g. if there's a rotation, state how many degrees the rotation was). Be sure to use proper vocabulary (translation, reflection, rotation, dilation).

1)



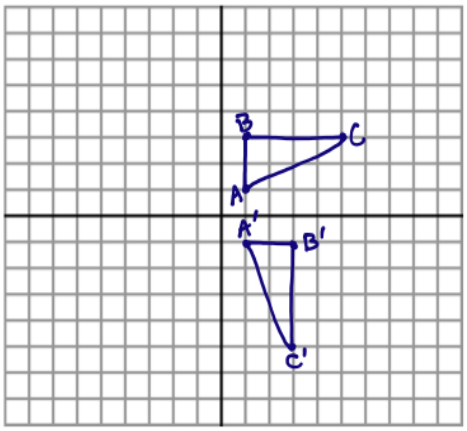
Transformation: _____

2)



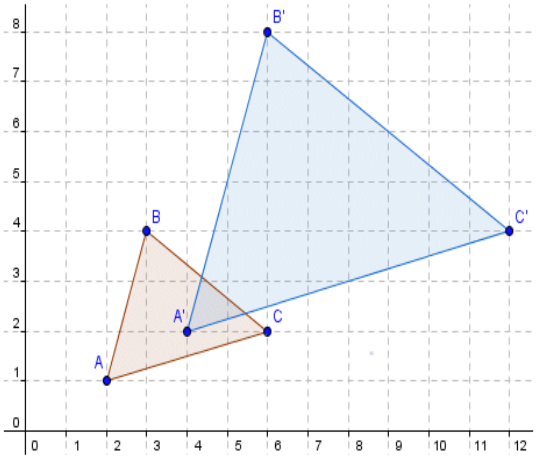
Transformation: _____

3)



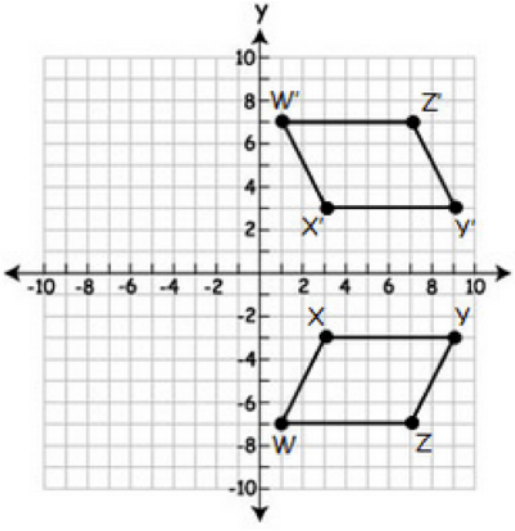
Transformation: _____

4)



Transformation: _____

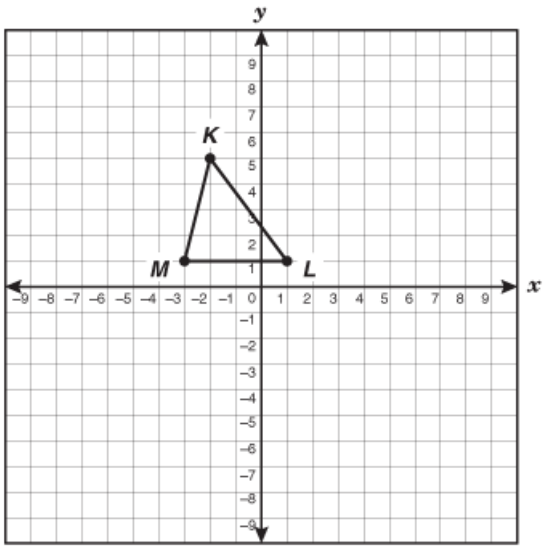
5)



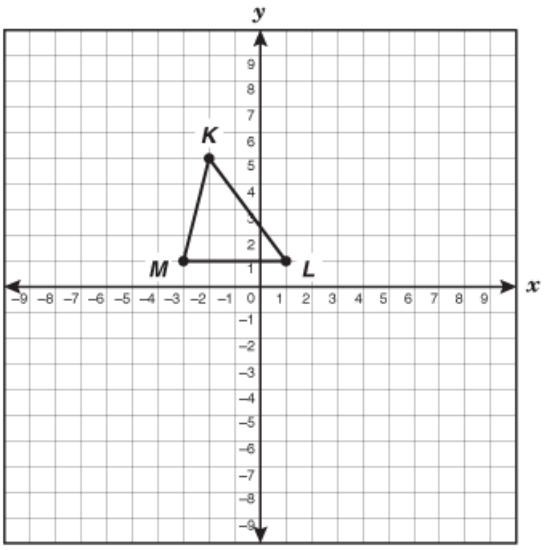
Transformation: _____

Directions: Perform the given transformations. Be sure to label your new vertices with the appropriate letters.

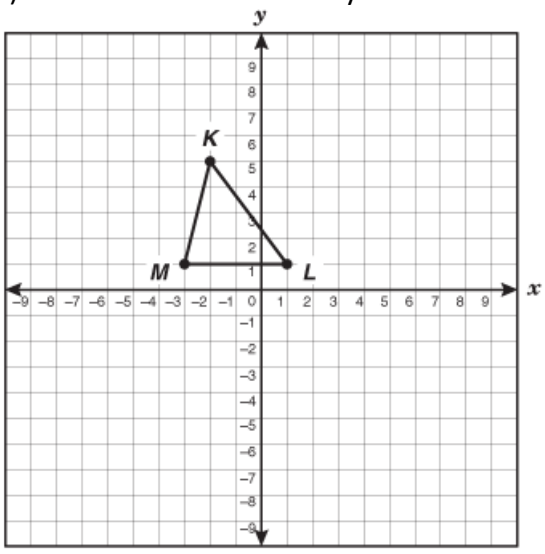
6) T(4, -1)



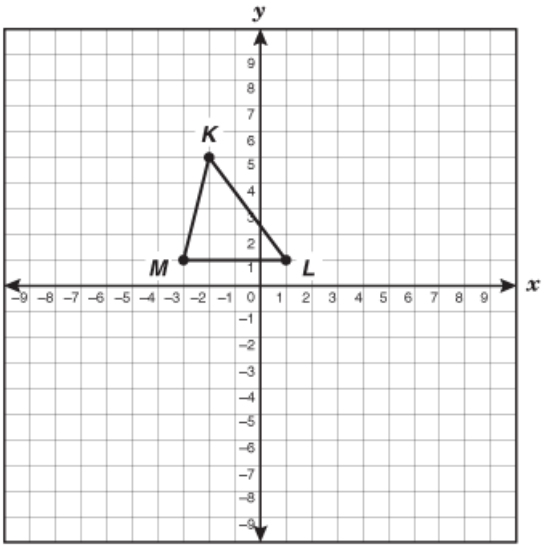
7) Dilation with a scale factor of 2.



8) Reflection over the y-axis

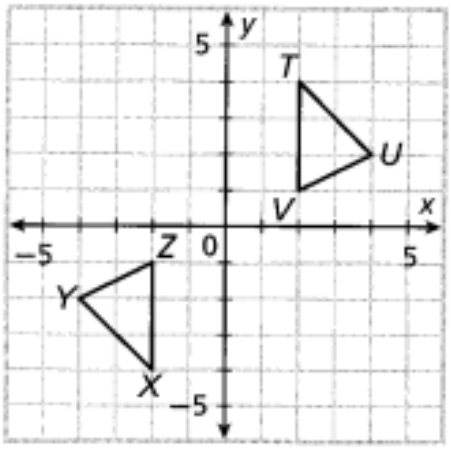


9) Reflection over the x-axis.



Directions: Describe the <u>specific</u> composition of transformations that occurred between the $\cong$ figures (e.g. if there's a rotation, state how many degrees the rotation was). Be sure to use proper vocabulary (translation, reflection, rotation, dilation).

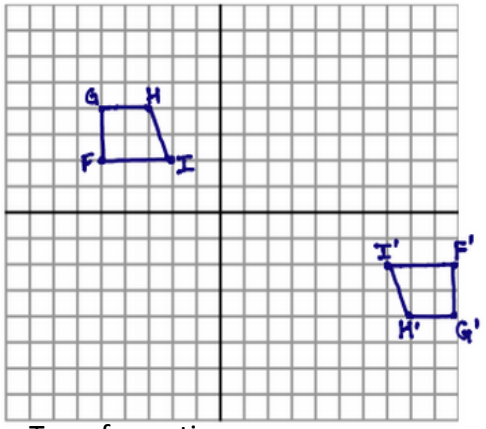
11) $\Delta TUV \cong \Delta XYZ$



Transformations: _____

_____

12) $Quad\ FGHI \cong Quad\ F'G'H'I'$

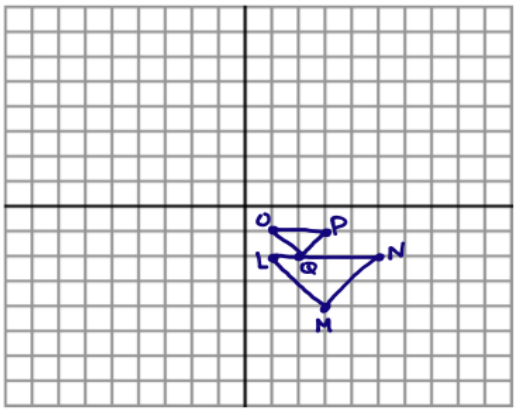


Transformations: _____

_____

Directions: Describe the <u>specific</u> composition of transformations that occurred between the $\sim$ figures (e.g. if there's a rotation, state how many degrees the rotation was). Be sure to use proper vocabulary (translation, reflection, rotation, dilation).

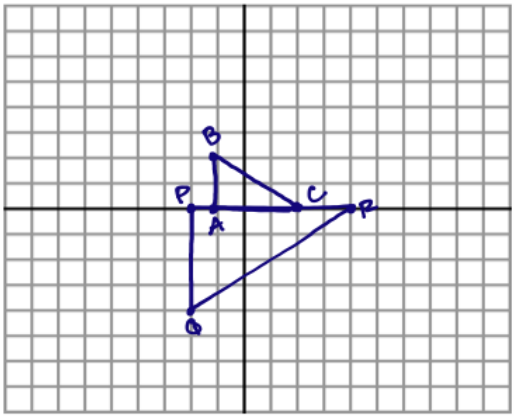
13) $\Delta OPQ \sim \Delta LNM$



Transformations: _____

_____

14) $\Delta ABC \sim \Delta PQR$



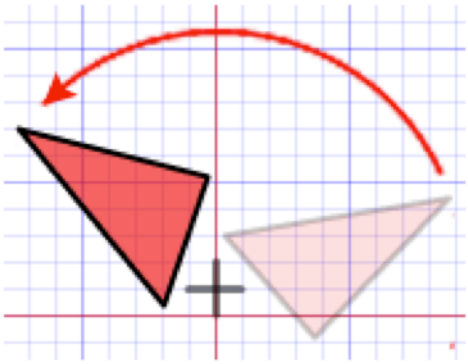
Transformations: _____

_____

In Summary:

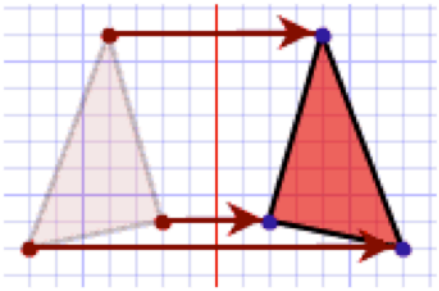
If one shape becomes another ...	**The shapes are ...**
... using only Rotate, Reflect and/or Translate	Congruent
... using a **Resize** (may also Rotate, Reflect and/or Translate)	Similar

Rotation



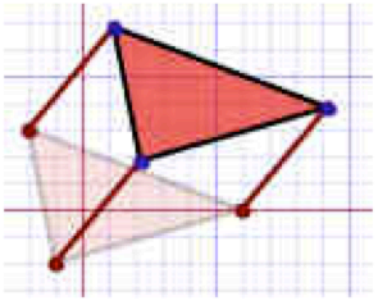
Turn!

Reflection



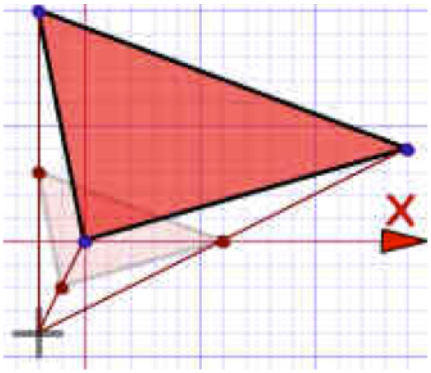
Flip!

Translation



Slide!

Dilation



Resize!