

TRANSFORMATIONS

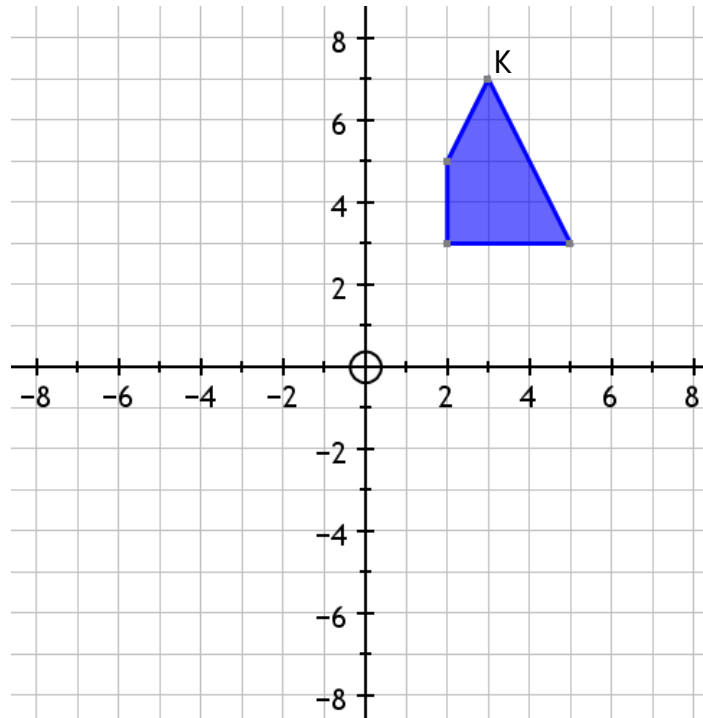
Name:

Assessment Criteria: Reason about position and movement and transform shapes

1. Reflect the quadrilateral in the line $x = -1$. Label the new quadrilateral R.

Reflect quadrilateral R in the line $y = 2$. Label the new quadrilateral S.

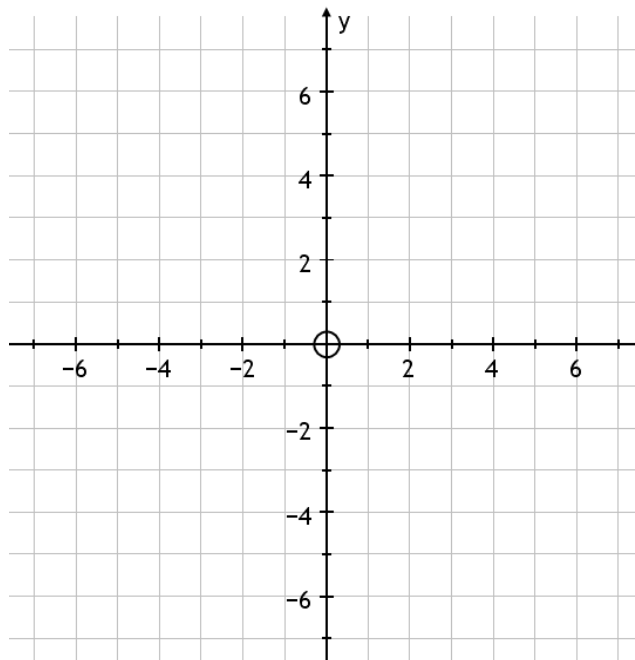
On quadrilateral R, label the vertex that corresponds to K on the original quadrilateral. Label it K'.



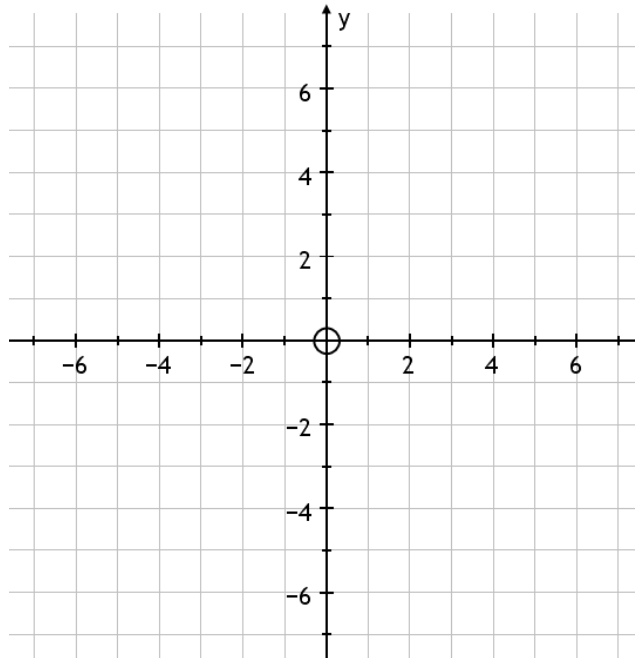
2. On the grid here, plot and join the points $(0,2)$, $(2,2)$ and $(2,5)$ to make a triangle. Label the triangle A.

Reflect the triangle in the line $y=x$. Label the image B.

Rotate triangle B 90° clockwise using a centre of rotation $(5,2)$. Label the triangle C.



3. On the grid below, plot and join the points $(-4, -2)$, $(-2, -2)$ and $(-3, -6)$ to make a triangle. Label the triangle L.



Reflect triangle L in the line $y=x$. Label the new triangle M.

Translate triangle M three units right and three units down. Label the new triangle N.

What **single** transformation would move triangle N onto triangle L?

Overall, I think my success level is:

Low High

Q	TRANSFORMATIONS	☺	☹
	I can carry out a simple reflection		
	I can carry out a reflection in two mirror lines		
	I can carry out a reflection in an oblique mirror line		
	I can carry out a translation		
	I can carry out a rotation when the centre of rotation is a vertex of the shape		
	I can reason about position		
	I can reason about movement		
	<i>I can show understanding of situations by describing them mathematically using symbols, words and diagrams</i>		

I need to practise ...