

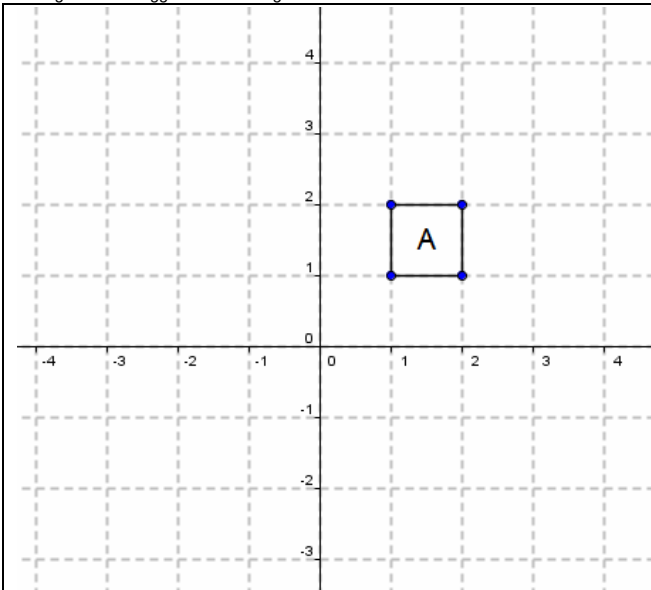
GCSE Transformations:

Translate: This means you move the shape.

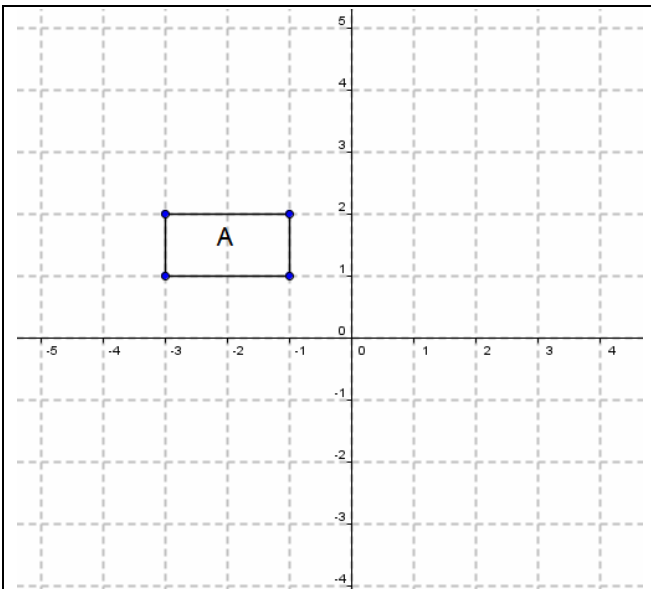
Rotate: You state the centre of rotation, angle and direction.

Reflect: Put a mirror on the line and redraw the shape

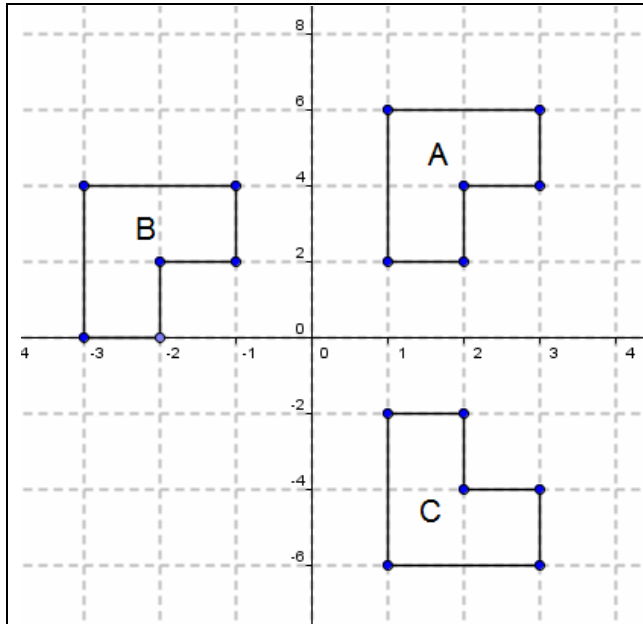
Enlarge: Make it bigger! You will be given the scale factor.



Rotate Shape A 180° anticlockwise about 0, 0. Label it B
 Translate Shape A by -1, -2 and label it Shape C
 Reflect shape A in the y axis and label it shape D

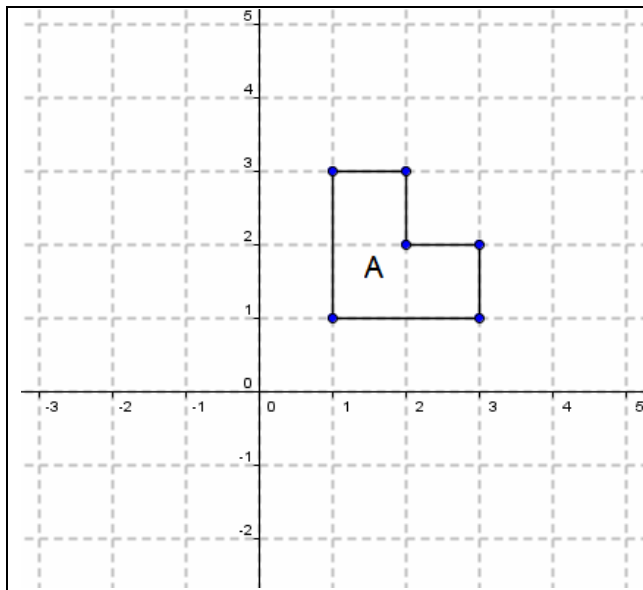


Rotate Shape A 90° anticlockwise about 1, 0 label it B
 Reflect shape A in the x axis and label it shape C
 Translate Shape A by 3, 1 and label it Shape D

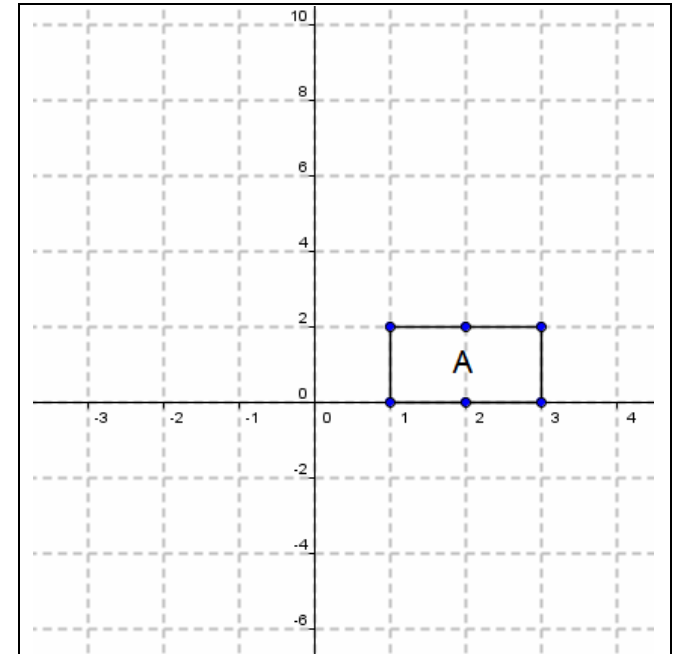


State fully:

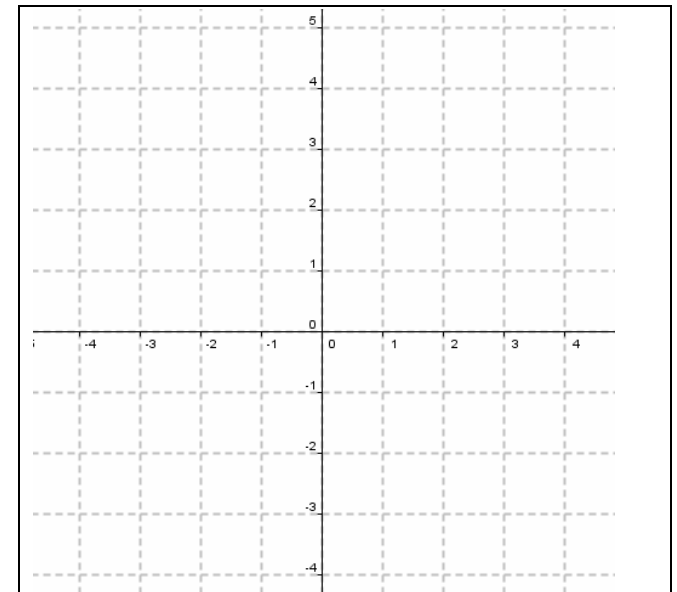
- (a) The single transformation that maps shape A to shape B
- (b) The single transformation that maps shape A to shape C
- (c) The single transformation that maps shape C to shape A



Rotate Shape A 90° Clockwise about 1,1 label it B
 Translate Shape A by -1, 1 and label it Shape C
 Reflect shape A in the line $y = 3$ and label it shape D
 Enlarge Shape A by a scale factor 2, centre 1,1. Label it E
 Find the difference in the perimeter & area of shape A and E
 Be Very Careful with this example. You have been warned!



Translate Shape A by -3, -2 and label it Shape B
 Reflect shape A in the line $y = -2$ and label it shape C
 Rotate Shape A 90° clockwise about 0,0 label it D



Plot the points with coordinates (1,2) (1,3) (2,2) and (2,3)
 Reflect the shape in the line $y = x$
 Translate the shape 3, 1