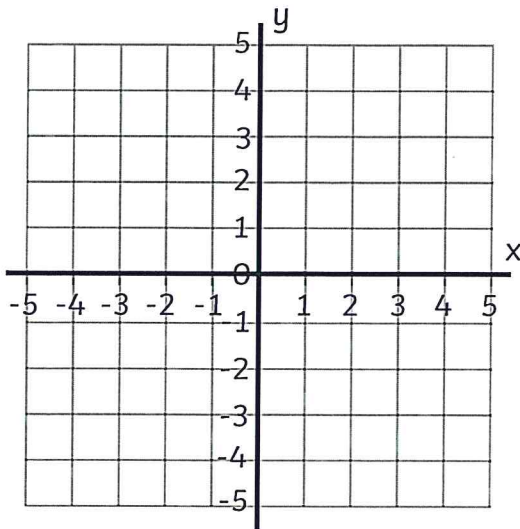


## 2D Shape Translations

Plot the following co-ordinates and follow the translations to reveal a new shape.

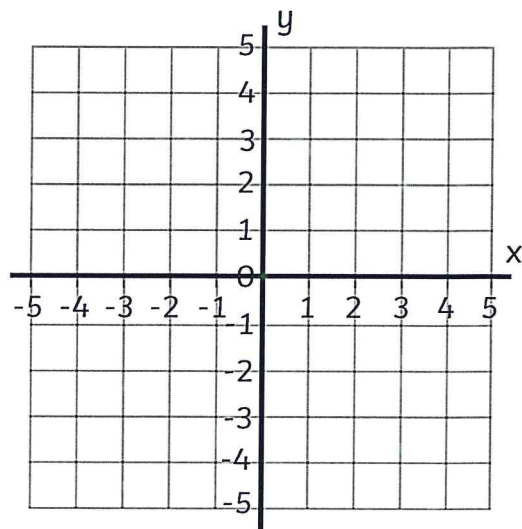
Plot these co-ordinates to reveal a shape:  $(-3,-1)$ ,  $(-3,-2)$ ,  $(1,-1)$ ,  $(1,-2)$



Translate the shape right 3, up 3.

What are the co-ordinates of the new shape?

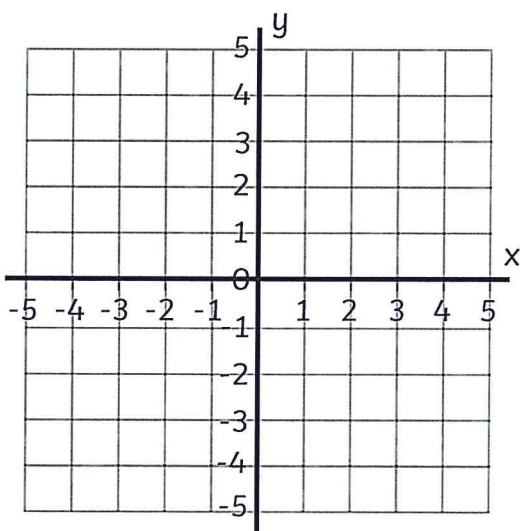
Plot these co-ordinates to reveal a shape:  $(2,1)$ ,  $(4,1)$ ,  $(0,-3)$ ,  $(0,-1)$



Translate the shape left 4, up 1.

What are the co-ordinates of the new shape?

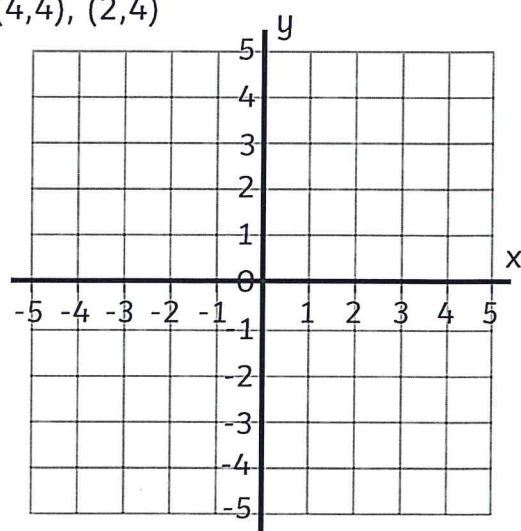
Plot these co-ordinates to reveal a shape:  $(-2,4)$ ,  $(-4,-3)$ ,  $(0,-3)$



Translate the shape right 4, down 2.

What are the co-ordinates of the new shape?

Plot these co-ordinates to reveal a shape:  $(2,1)$ ,  $(3,1)$ ,  $(3,3)$ ,  $(4,3)$ ,  $(4,4)$ ,  $(2,4)$



Translate the shape left 3, down 4.

What are the co-ordinates of the new shape?