

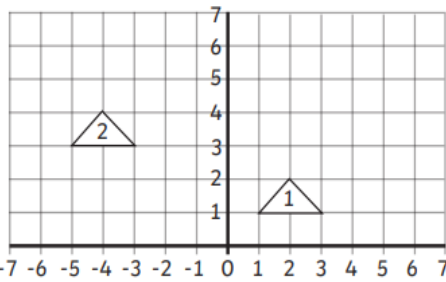
18.1.21

L.O I can translate across all four quadrants.

Challenge A

Translate from Shape 1 to Shape 2

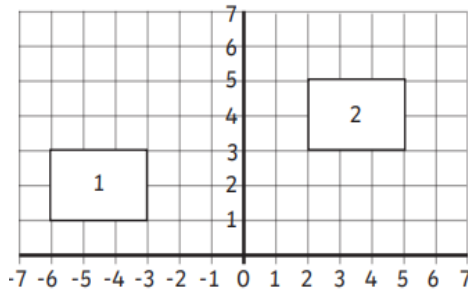
Remember to always use the SAME POINT on both shapes.



Starting co-ordinates:

Translation:

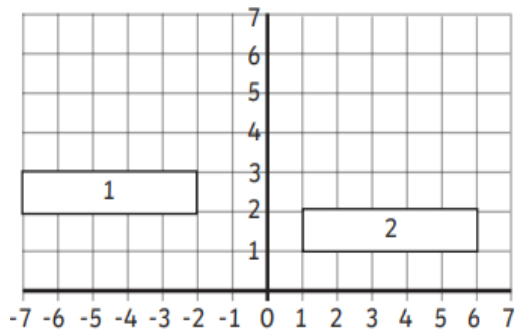
Finishing co-ordinates:



Starting co-ordinates:

Translation:

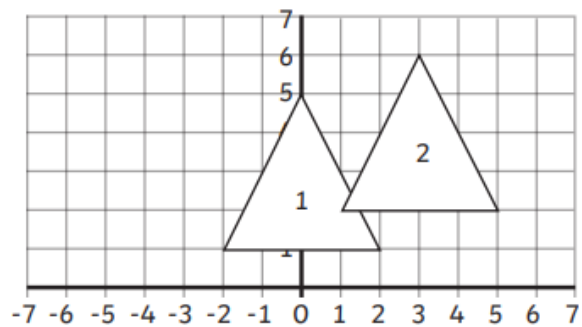
Finishing co-ordinates:



Starting co-ordinates:

Translation:

Finishing co-ordinates:



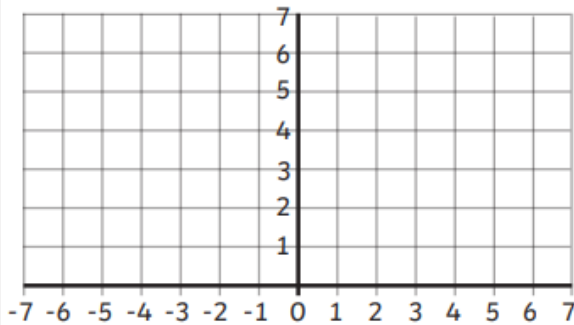
Starting co-ordinates:

Translation:

Finishing co-ordinates:

Challenge B

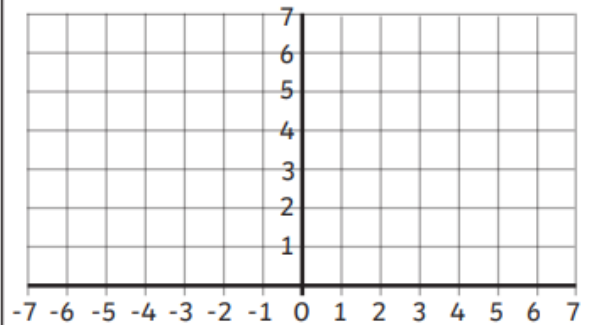
Plot these co-ordinates to reveal a shape:
 $(0,1)$, $(2,1)$, $(2,3)$, $(0,3)$



Translate the shape left 6, down 1.

What are the co-ordinates of the new shape?

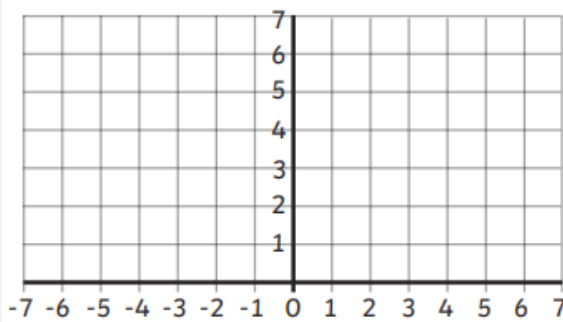
Plot these co-ordinates to reveal a shape:
 $(-2, 3)$, $(-1, 5)$, $(-3, 5)$



Translate the shape right 4, down 2.

What are co-ordinates of the new shape?

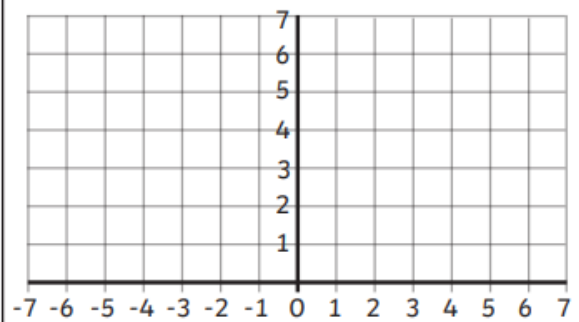
Plot these co-ordinates to reveal a shape:
 $(1,1)$, $(3,1)$, $(1,3)$



Translate the shape left 2, up 2.

What are the co-ordinates of the new shape?

Plot these co-ordinates to reveal a shape:
 $(3,3)$, $(4,4)$, $(3,5)$, $(2,4)$

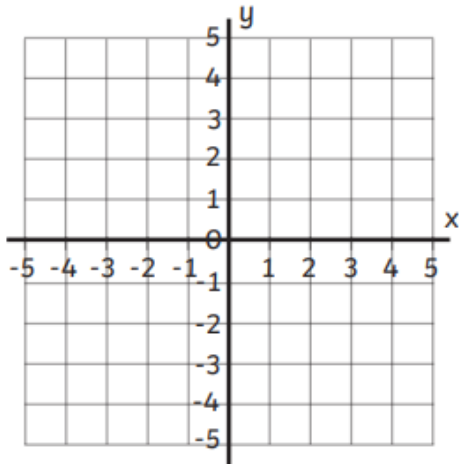


Translate the shape left 3, down 3.

What are the co-ordinates of the new shape?

Challenge C

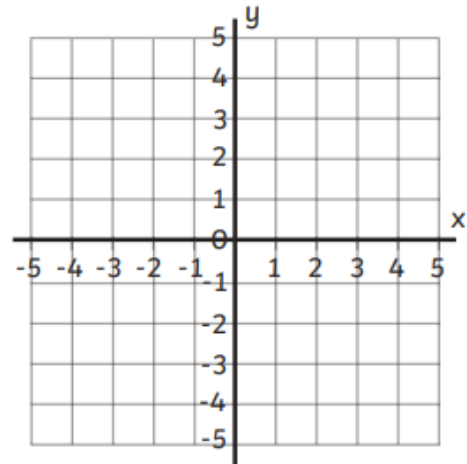
Plot these co-ordinates to reveal a shape: $(-3,-1)$, $(-3,-2)$, $(1,-1)$, $(1,-2)$



Translate the shape right 3, up 3.

What are the co-ordinates of the new shape?

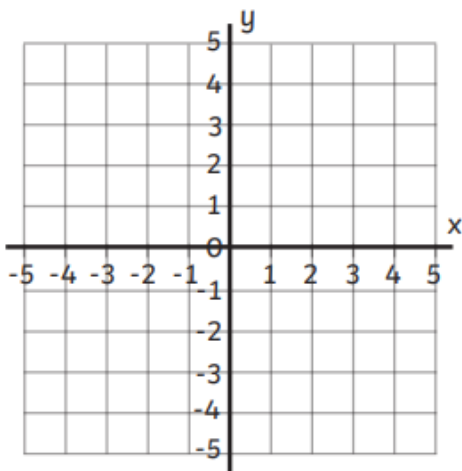
Plot these co-ordinates to reveal a shape: $(2,1)$, $(4,1)$, $(0,-3)$, $(0,-1)$



Translate the shape left 4, up 1.

What are the co-ordinates of the new shape?

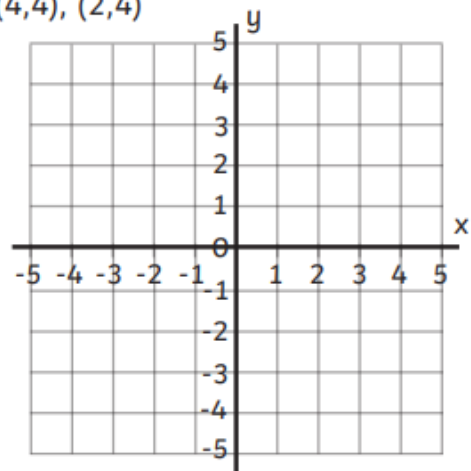
Plot these co-ordinates to reveal a shape: $(-2,4)$, $(-4,-3)$, $(0,-3)$



Translate the shape right 4, down 2.

What are the co-ordinates of the new shape?

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



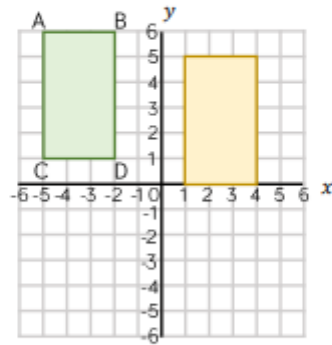
Translate the shape left 3, down 4.

What are the co-ordinates of the new shape?

Challenge D

True or False?

Dexter has translated the rectangle ABCD 6 units down and 1 unit to the right to get the yellow rectangle.



Explain your reasoning.

Challenge E

Spot the Mistake.

The green triangle has been translated 6 units to the left and 3 units down.

