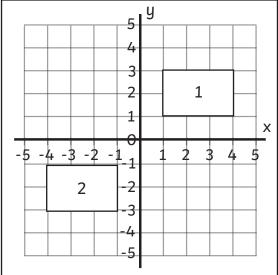
2D Shape Translations

I can describe the translation of a 2D shape on a four-quadrant co-ordinate grid.

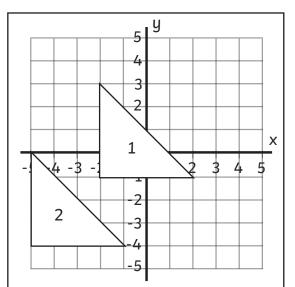
Describe the positions and translations of the 2D shapes.



Starting co-ordinates:

Translation:

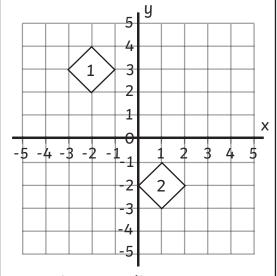
Finishing co-ordinates:



Starting co-ordinates:

Translation:

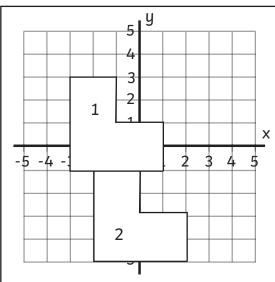
Finishing co-ordinates:



Starting co-ordinates:

Translation:

Finishing co-ordinates:



Starting co-ordinates:

Translation:

Finishing co-ordinates:

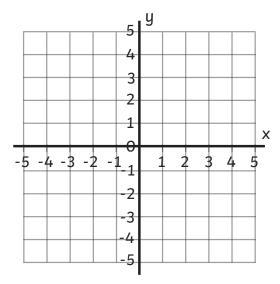




2D Shape Translations

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

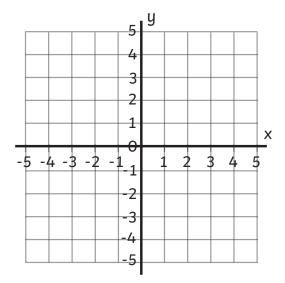
Plot these co-ordinates to reveal a shape: (-3,-1), (-3, -2), (1, -1), (1, -2)



Translate the shape right 3, up 3.

What are the co-ordinates of the new shape?

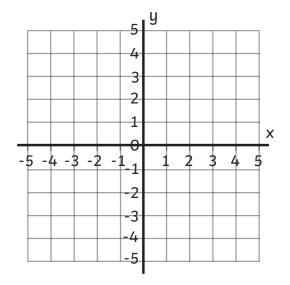
Plot these co-ordinates to reveal a shape: (2, 1), (4, 1), (0, -3), (0, -1)



Translate the shape left 4, up 1.

What are the co-ordinates of the new shape?

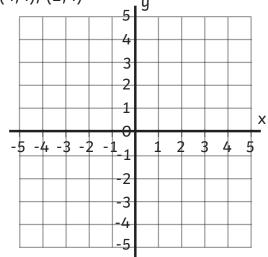
Plot these co-ordinates to reveal a shape: (-2, 4), (-4, -3), (0, -3)



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?





2D Shape Translations Answers

Describe the positions and translations of the 2D shapes.

Starting co-ordinates:

(1,1), (4,1), (4,3), (1,3)

Translation: Left 5, down 4

Finishing co-ordinates:

(-4,-3), (-1, -3), (-1, -1), (-4, -1)

Starting co-ordinates:

(-2,-1), (2, -1), (-2, 3)

Translation: Left 3, down 3

Finishing co-ordinates:

(-5, -4), (-1, -4), (-5,0)

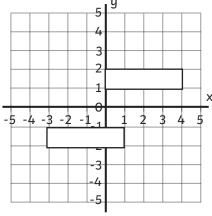
Starting co-ordinates:

(-2,2), (-1,3), (-2,4), (-3,3)

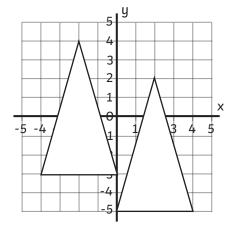
Translation: Right 3, down 5

Finishing co-ordinates:

(1,-3), (2,-2), (1,-1), (0,-2)



What are the co-ordinates of the new shape? **(0, 1), (4,1), (4,2), (0,2)**



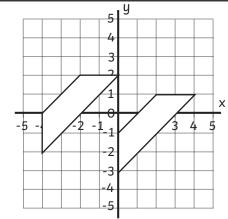
What are the co-ordinates of the new shape? (2,2), (0,-5), (4, -5)

Starting co-ordinates:

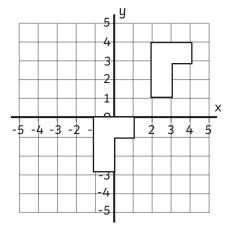
Translation: Right 1, down 4

Finishing co-ordinates:

(0,-1), (-2, -1)



What are the co-ordinates of the new shape? (-2,2), (0,2), (-4,-2), (-4,0)



What are the co-ordinates of the new shape? (-1,-3), (0,-3), (0,-1), (1,-1), (1,0), (-1,0)

2D Shape Translations Answers

Describe the positions and translations of the 2D shapes.

Starting co-ordinates: (-4,1), (0,1), (-2,6)

Translation: Right 9, down 11

Finishing co-ordinates: **(5,-10)**, **(9,-10)**, **(7,-5)**

Starting co-ordinates:

Translation: Right 5, up 7

Finishing co-ordinates:

(-2, 3), (4,3), (4,5), (-2,5)

Starting co-ordinates: (3,0), (4,0), (4,2), (5,2), (5,3), (4,3), (4,5), (3, 5), (3,3), (2,3), (2,2), (3,2)

Translation: Left 10, down 4

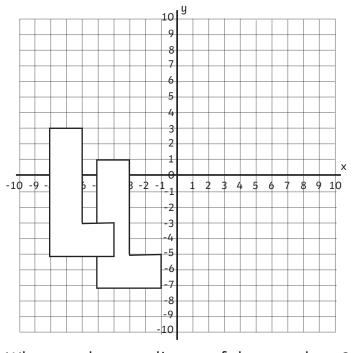
Finishing co-ordinates: (-7,-4), (-6,-4), (-6,-2), (-5,-2), (-5,-1), (-6,-1), (-6,1), (-7,1), (-7,-1), (-8,-1), (-8,-2), (-7,-2)

Starting co-ordinates:

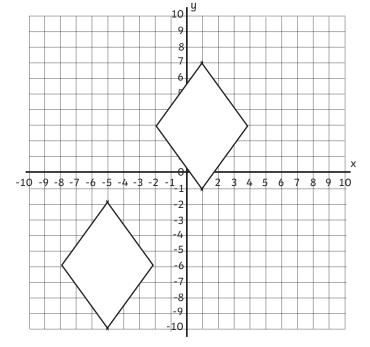
Translation: Right 9, down 8

Finishing co-ordinates:

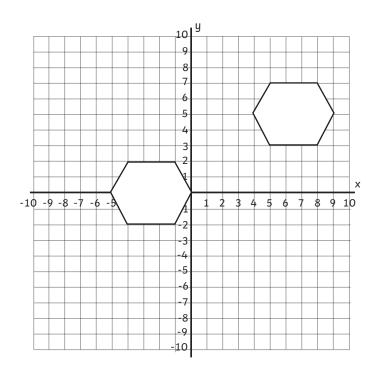
(4,-7), (6,-7), (7,-2), (3,-2)

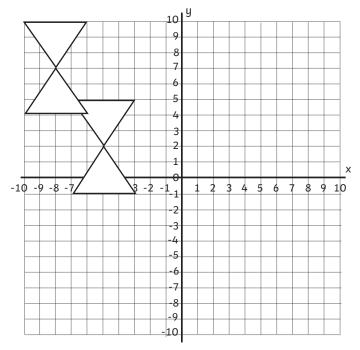


What are the co-ordinates of the new shape? (-5, -7), (-1,-7), (-1, -5), (-3,-5), (-3,1), (-5, 1)



What are the co-ordinates of the new shape? **(4,3), (1,7), (-2,3), (1,-1)**





What are the co-ordinates of the new shape? (-4, -2), (-1,-2), (0,0), (-1,2), -4, 2), (-5,0)

What are the co-ordinates of the new shape? (-6,4), (-8,7), (-10,10), (-6,10), (-10,4)