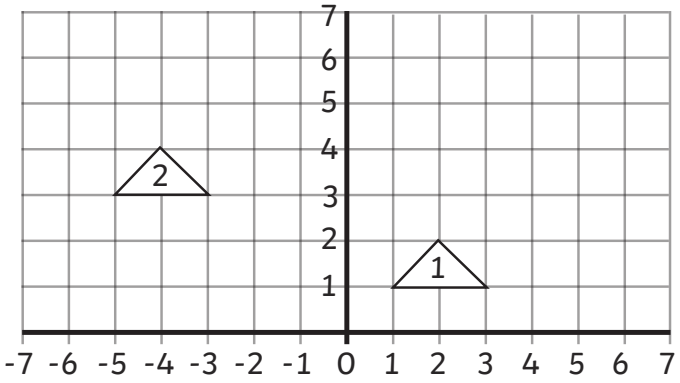
2D Shape Translations

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

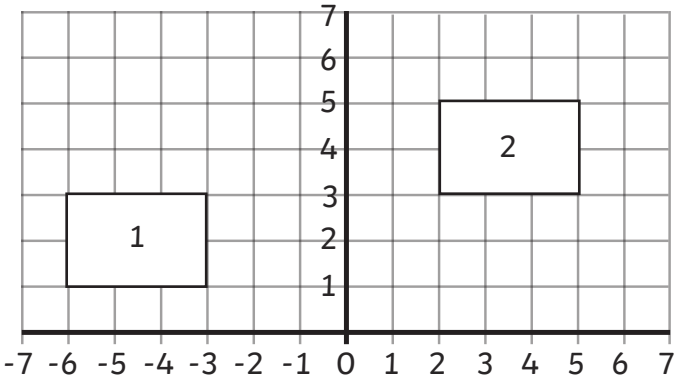
Describe the positions and translations of the 2D shapes.



Starting co-ordinates:

Translation:

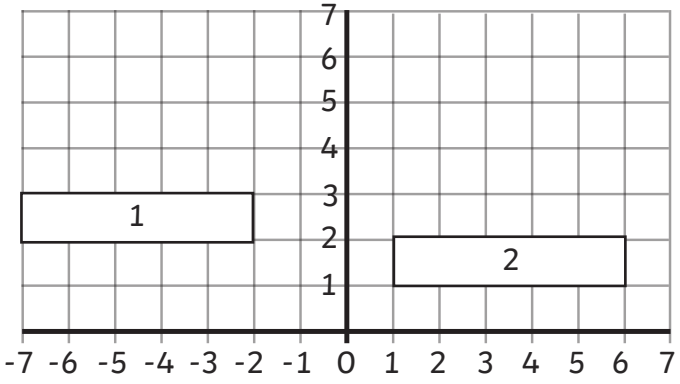
Finishing co-ordinates:



Starting co-ordinates:

Translation:

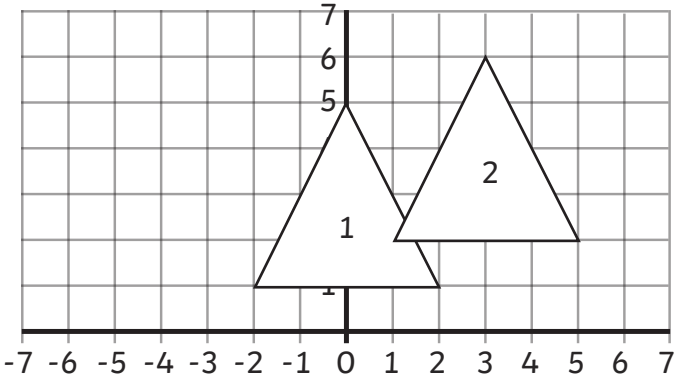
Finishing co-ordinates:



Starting co-ordinates:

Translation:

Finishing co-ordinates:



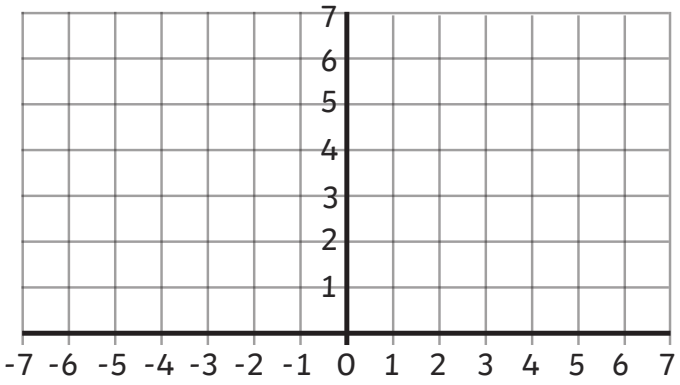
Starting co-ordinates:

Translation:

Finishing co-ordinates:

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

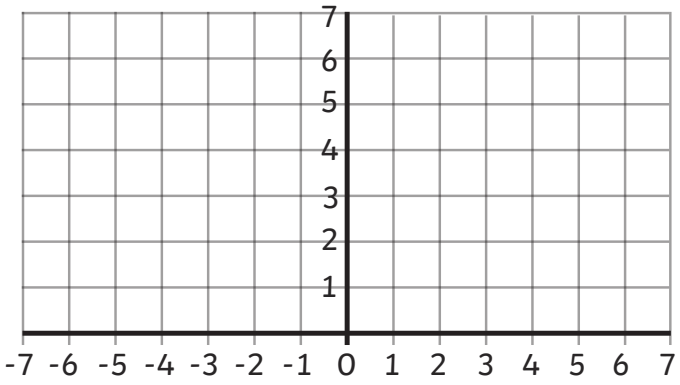
Plot these co-ordinates to reveal a shape:
(0,1), (2,1), (2,3), (0,3)



Translate the shape left 6, down 1.

What are the co-ordinates of the new shape?

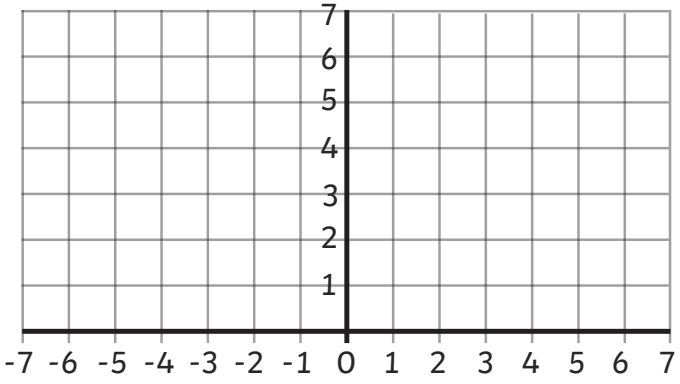
Plot these co-ordinates to reveal a shape:
(-2, 3), (-1, 5), (-3, 5)



Translate the shape right 4, down 2.

What are co-ordinates of the new shape?

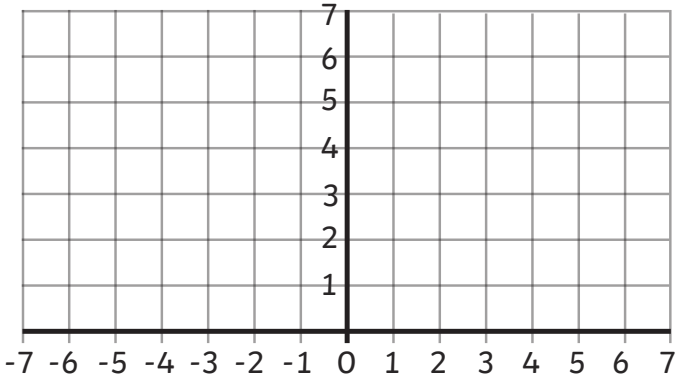
Plot these co-ordinates to reveal a shape:
(1,1), (3,1), (1,3)



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)



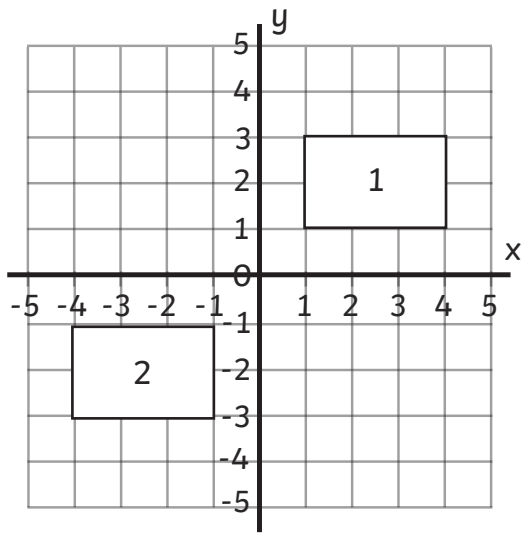
Translate the shape left 3, down 3.

What are the co-ordinates of the new shape?

2D Shape Translations

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

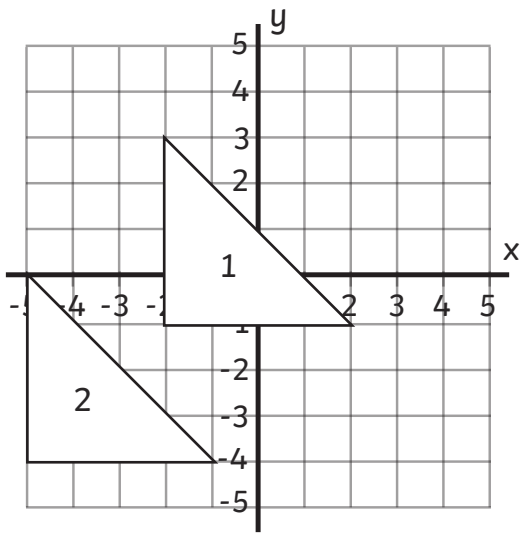
Describe the positions and translations of the 2D shapes.



Starting co-ordinates:

Translation:

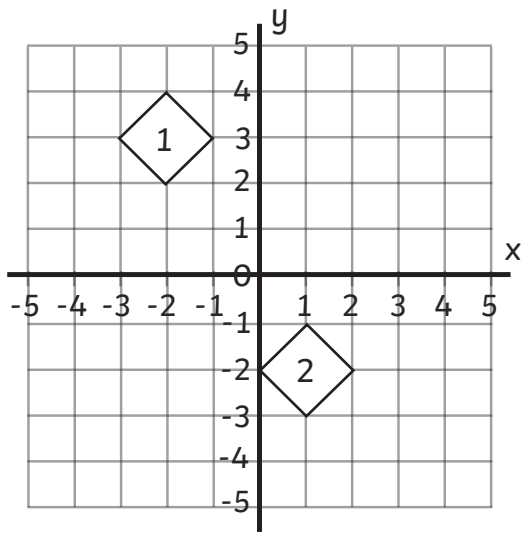
Finishing co-ordinates:



Starting co-ordinates:

Translation:

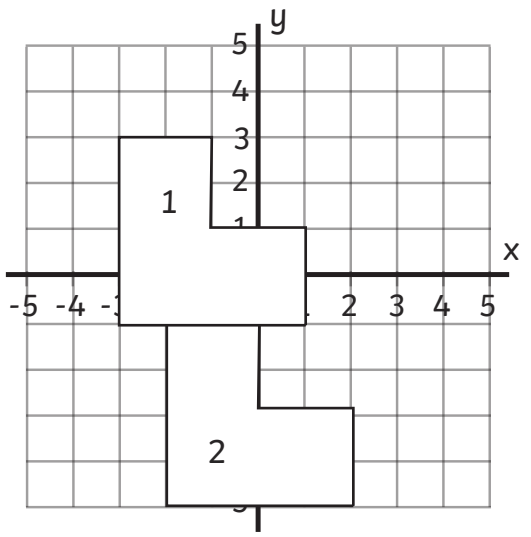
Finishing co-ordinates:



Starting co-ordinates:

Translation:

Finishing co-ordinates:



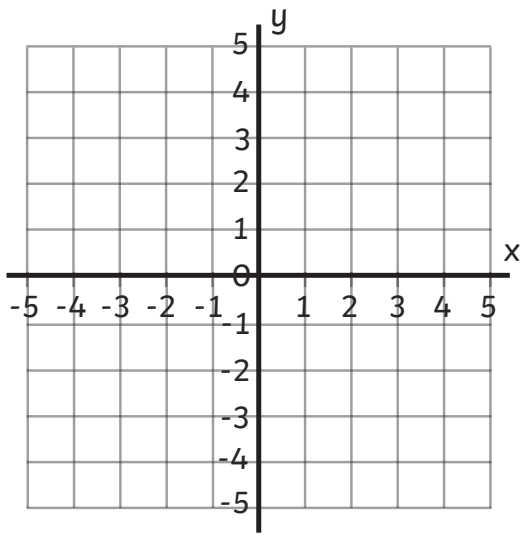
Starting co-ordinates:

Translation:

Finishing co-ordinates:

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

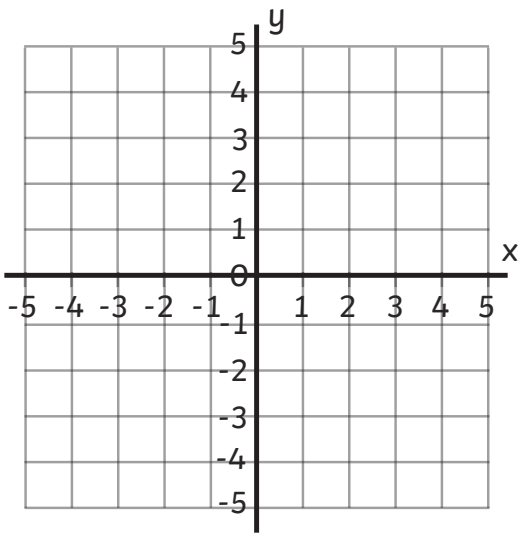
Plot these co-ordinates to reveal a shape: (-3,-1), (-3, -2), (1, -1), (1, -2)



Translate the shape right 3, up 3.

What are the co-ordinates of the new shape?

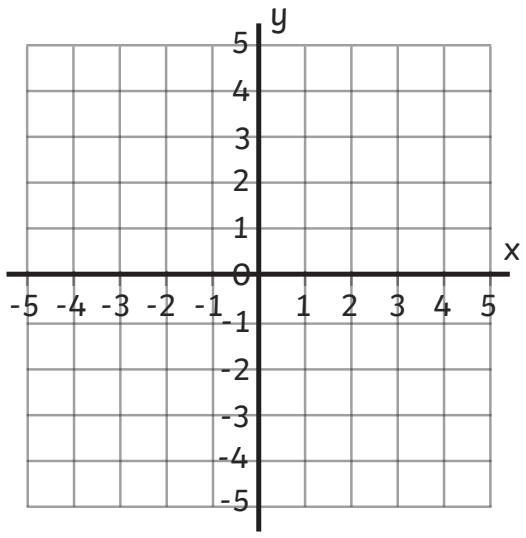
Plot these co-ordinates to reveal a shape: (2, 1), (4, 1), (0, -3), (0, -1)



Translate the shape left 4, up 1.

What are the co-ordinates of the new shape?

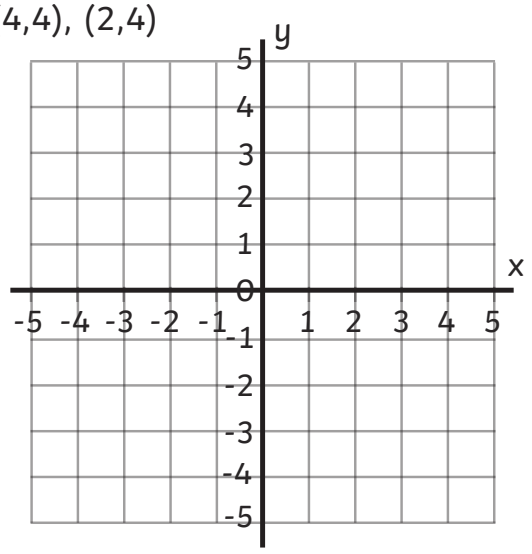
Plot these co-ordinates to reveal a shape: (-2, 4), (-4, -3), (0, -3)



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)



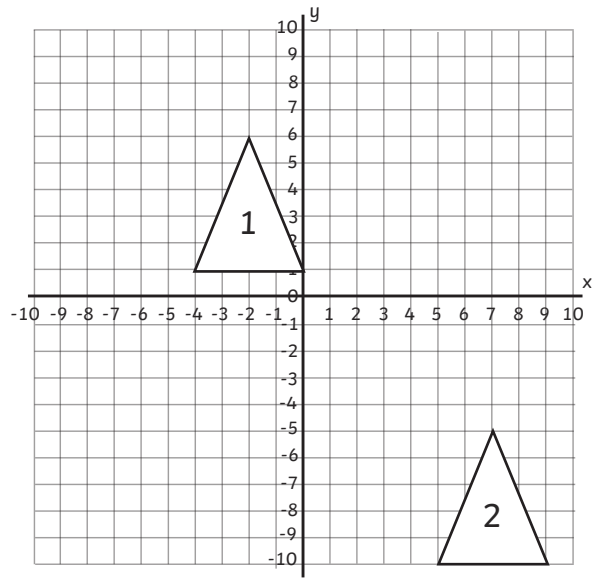
Translate the shape left 3, down 4.

What are the co-ordinates of the new shape?

2D Shape Translations

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

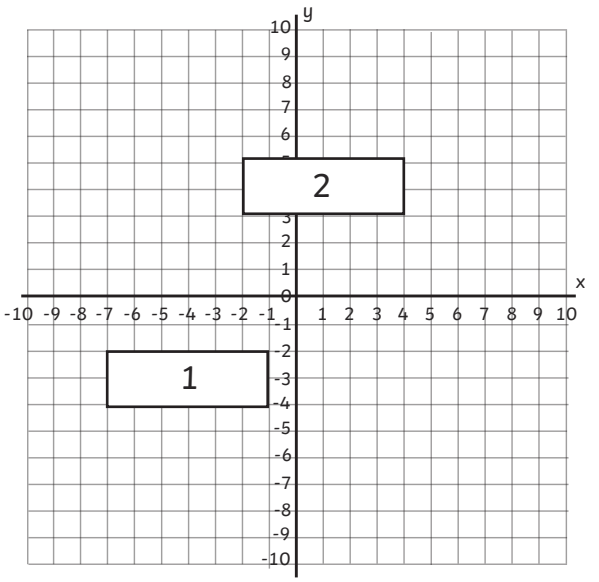
Describe the positions and translations of the 2D shapes.



Starting co-ordinates:

Translation:

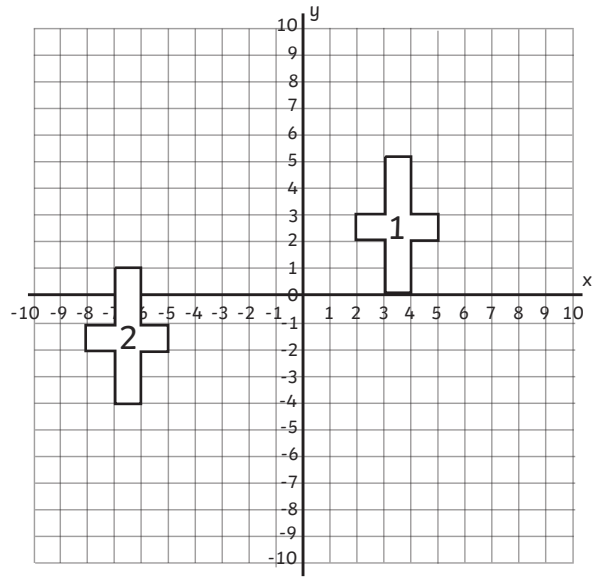
Finishing co-ordinates:



Starting co-ordinates:

Translation:

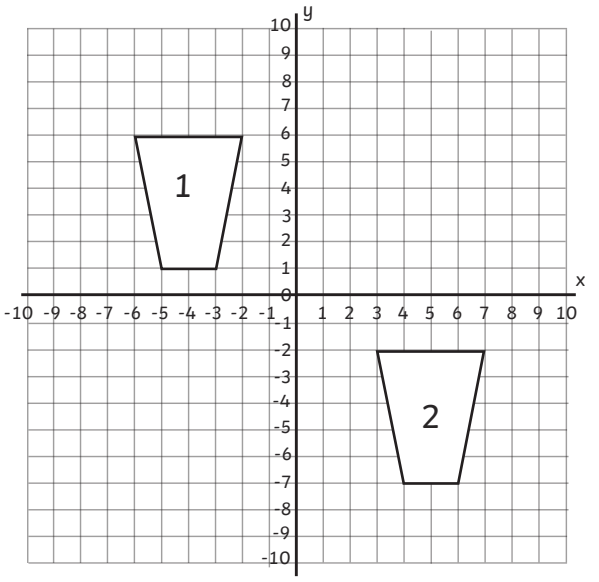
Finishing co-ordinates:



Starting co-ordinates:

Translation:

Finishing co-ordinates:



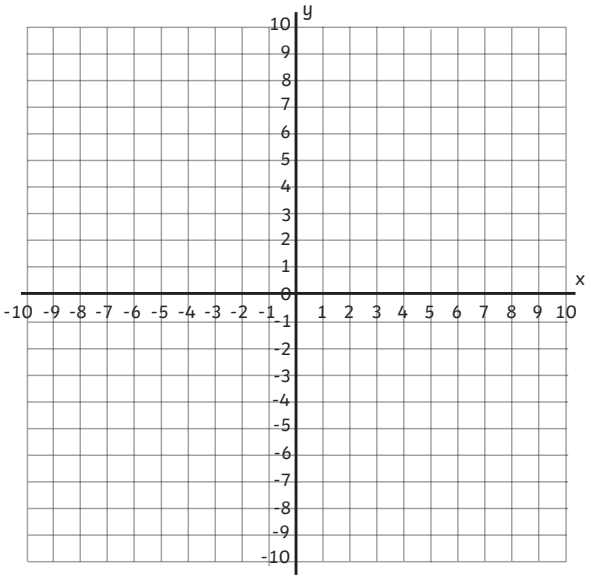
Starting co-ordinates:

Translation:

Finishing co-ordinates:

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

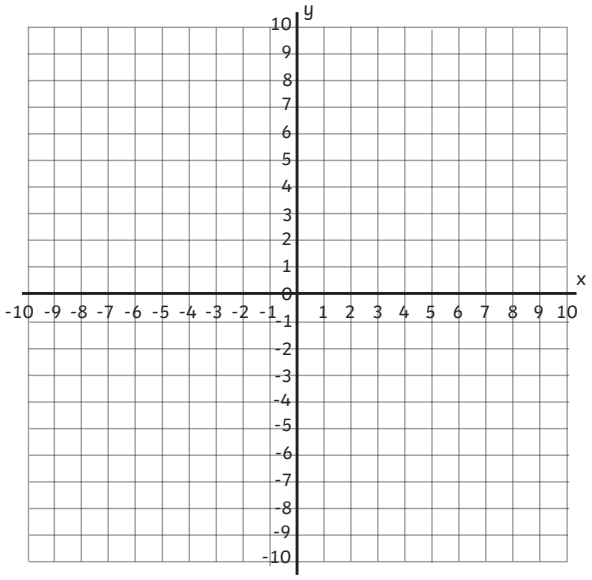
Plot these co-ordinates to reveal a shape: (-8, -5), (-4, -5), (-4, -3), (-6, -3), (-6, 3), (-8, 3)



Translate the shape right 3, down 2.

What are the co-ordinates of the new shape?

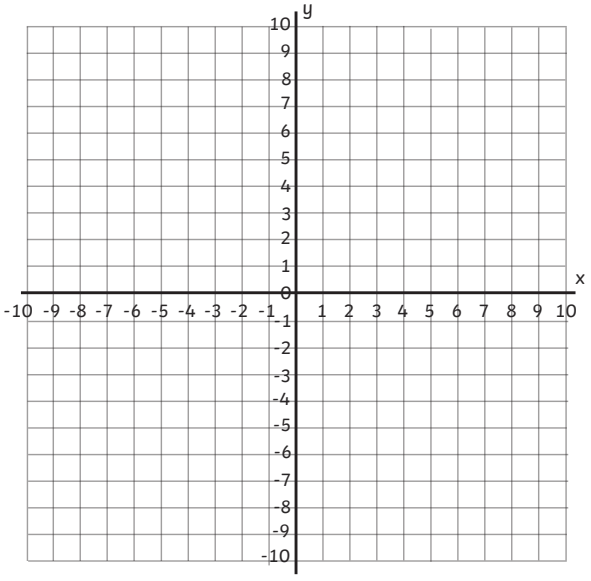
Plot these co-ordinates to reveal a shape: (-2, -6), (-5, -2), (-8, -6), (-5, -10)



Translate the shape right 6, up 9.

What are the co-ordinates of the new shape?

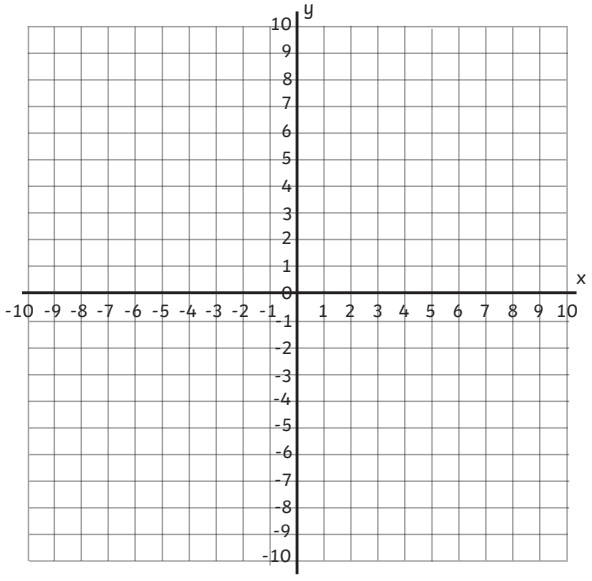
Plot these co-ordinates to reveal a shape: (5,3), (8,3), (9,5), (8,7), (5,7), (4,5)



Translate the shape left 9, down 5.

What are the co-ordinates of the new shape?

Plot these co-ordinates to reveal a shape: (-3, -1), (-5, 2), (-7, 5), (-3, 5), (-7, -1)



Translate the shape left 3, up 5.

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), (3,1), (2,2)**

Translation: **Left 6, up 2**

Finishing co-ordinates:
(-5,3), (-3,3), (-4, 4)

Starting co-ordinates:
(-6,1), (-3,1), (-3,3), (-6,3)

Translation: **Right 8, up 2**

Finishing co-ordinates:
(2,3), (5,3), (5,5), (2,5)

Starting co-ordinates:
(-7, 2), (-2,2), (-2, 3), (-7,3)

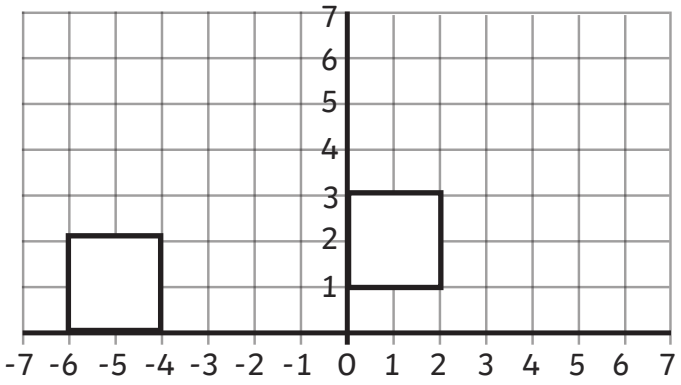
Translation: **Right 8, down 1**

Finishing co-ordinates:
(1,1), (6,1), (6,2), (1,2)

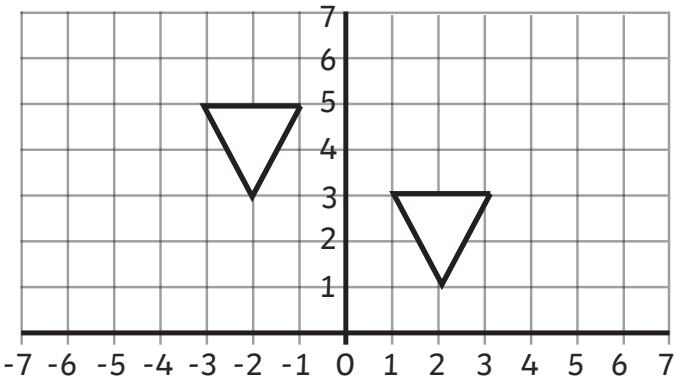
Starting co-ordinates: **(-2,1), (2,1), (0,5)**

Translation: **Right 3, up 1**

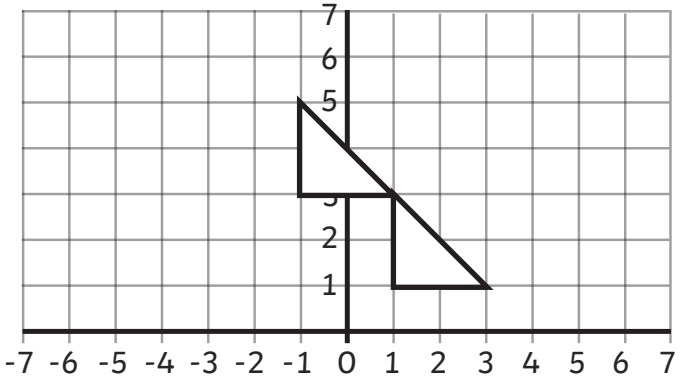
Finishing co-ordinates: **(1,2), (5,2), (3,6)**



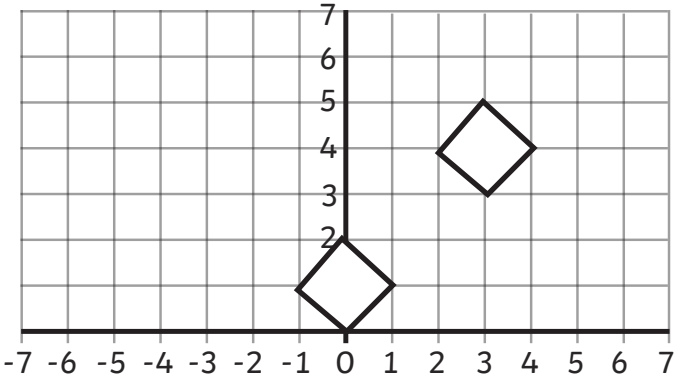
What are the co-ordinates of the new shape? **(-6, 0), (-4, 0), (-4,2), (-6, 2)**



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



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



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

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)

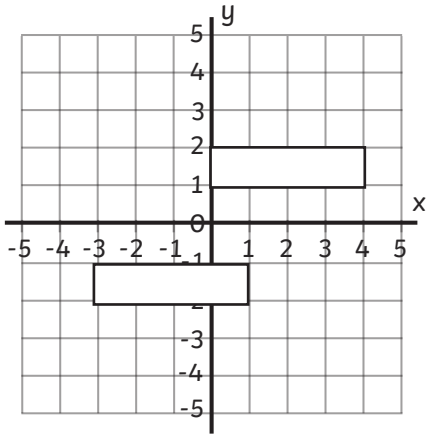
Translation: **Right 3, down 5**

Finishing co-ordinates:
(1,-3), (2,-2), (1,-1), (0,-2)

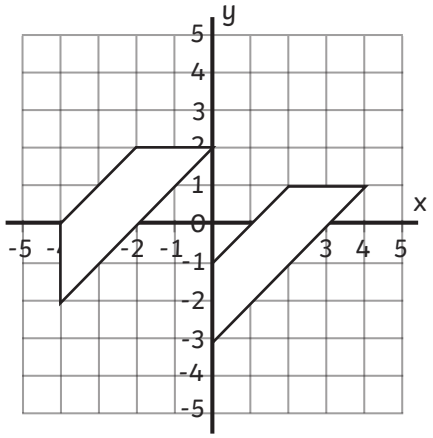
Starting co-ordinates:
(-3,-1), (1,-1), (1,1), (-1,1), (-1,3), (-3,3)

Translation: **Right 1, down 4**

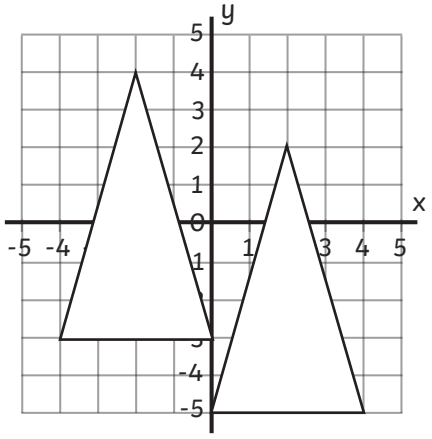
Finishing co-ordinates:
(-2, -5), (2, -5), (2,-3), (0,-3), (0,-1), (-2, -1)



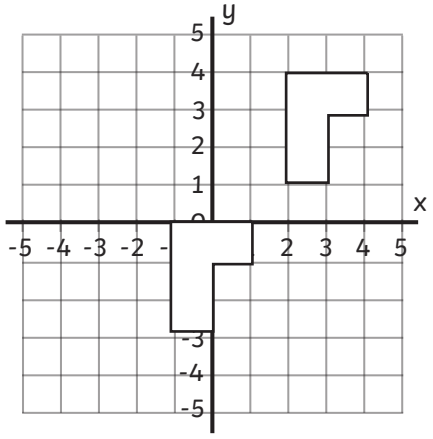
What are the co-ordinates of the new shape? **(0, 1), (4,1), (4,2), (0,2)**



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



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



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:
(-7,-4), (-1,-4), (-1, -2), (-7,-2)

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)**

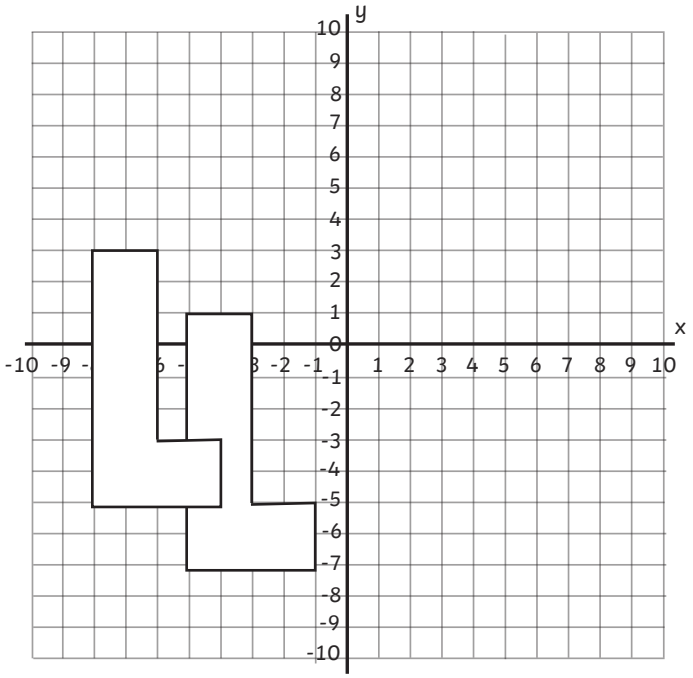
Translation: **Left 10, down 4**

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)**

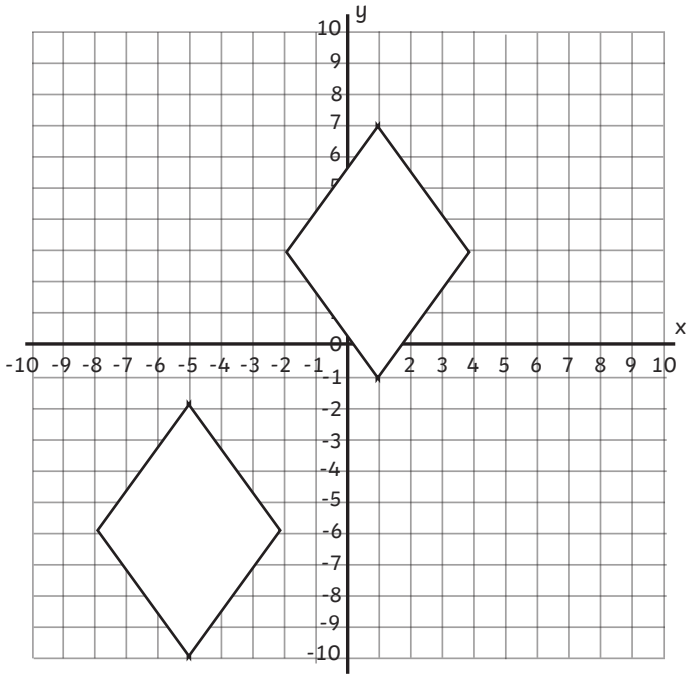
Starting co-ordinates:
(-5,1), (-3,1), (-2,6) (-6, 6),

Translation: **Right 9, down 8**

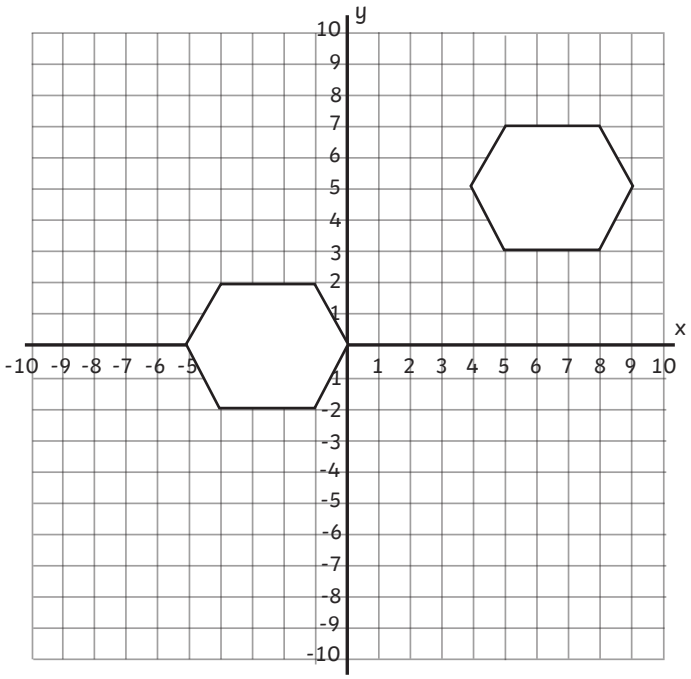
Finishing co-ordinates:
(4,-7), (6,-7), (7,-2), (3,-2)



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

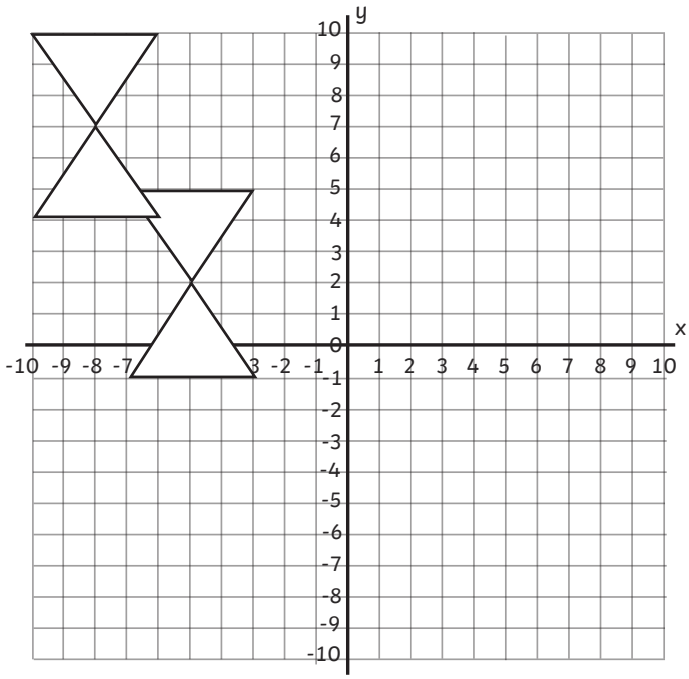


What are the co-ordinates of the new shape?
(4,3), (1,7), (-2,3), (1,-1)



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)