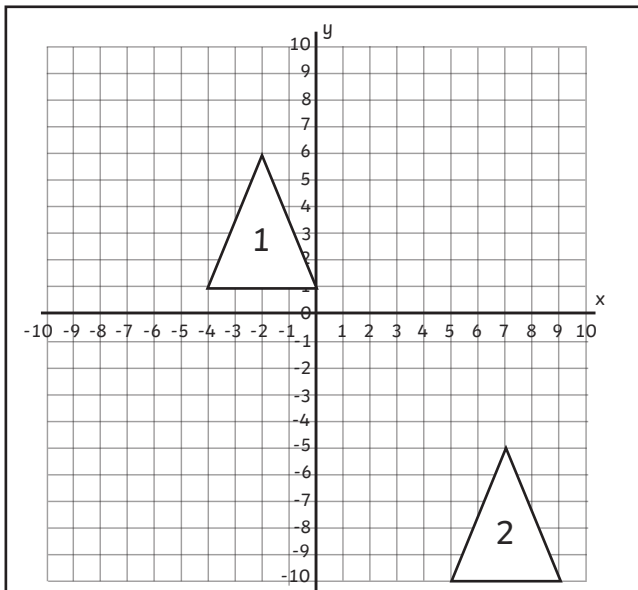# 2D Shape Translations

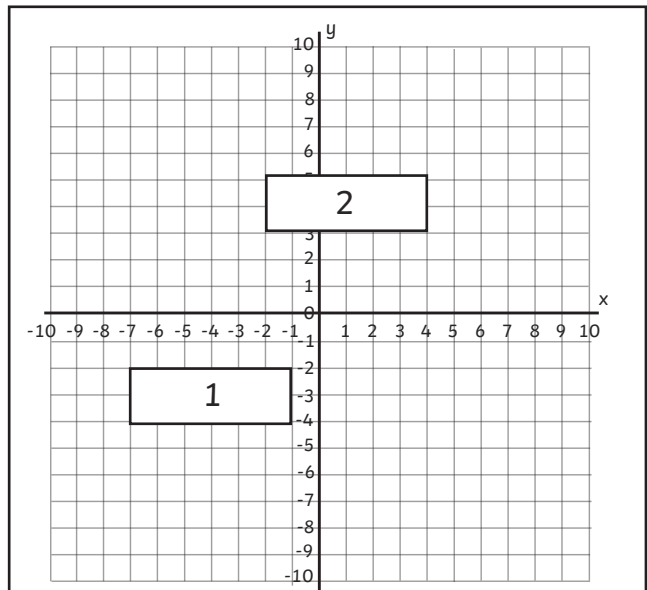I can describe the translation of a 2D shape on a four-quadrant co-ordinate grid.

Describe the positions and translations of the 2D shapes.

Starting co-ordinates:
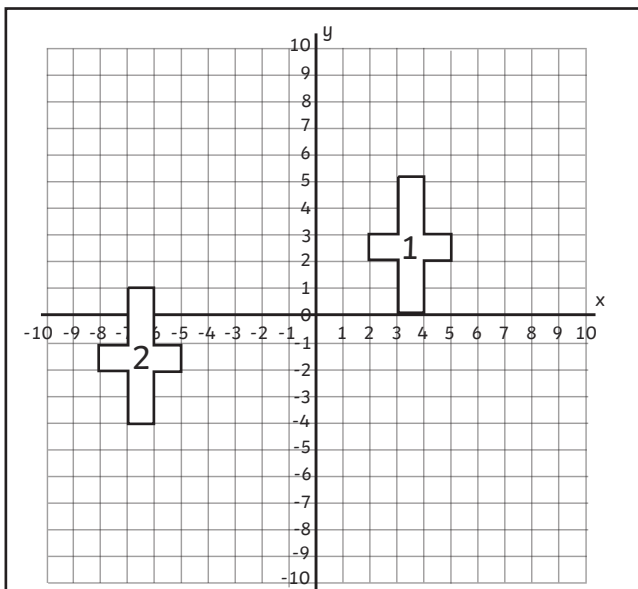
Translation:

Finishing co-ordinates:

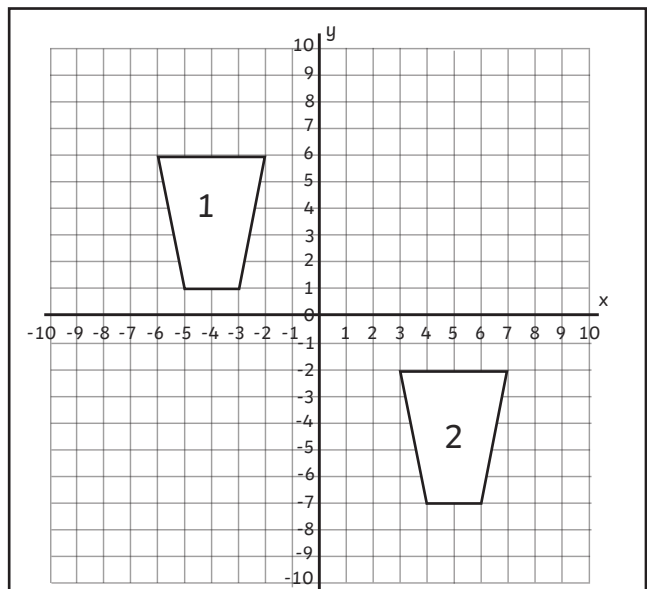Starting co-ordinates:

Translation:

Finishing co-ordinates:

Starting co-ordinates:

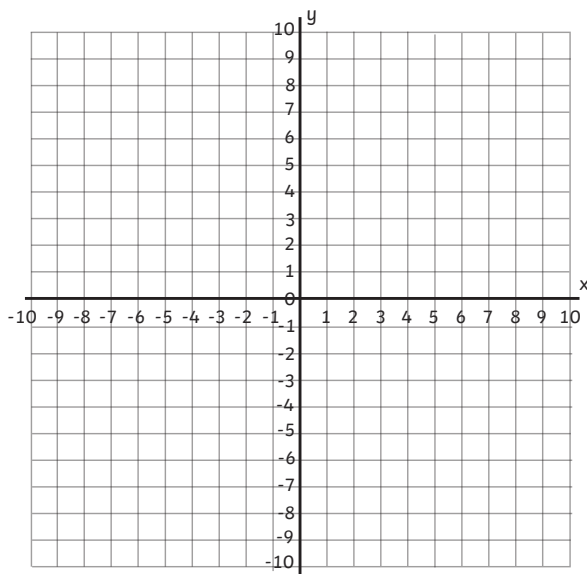Translation:

Finishing co-ordinates:

Starting co-ordinates:

Translation:

Finishing co-ordinates:

Plot the following co-ordinates and following the translations to reveal a new shape.
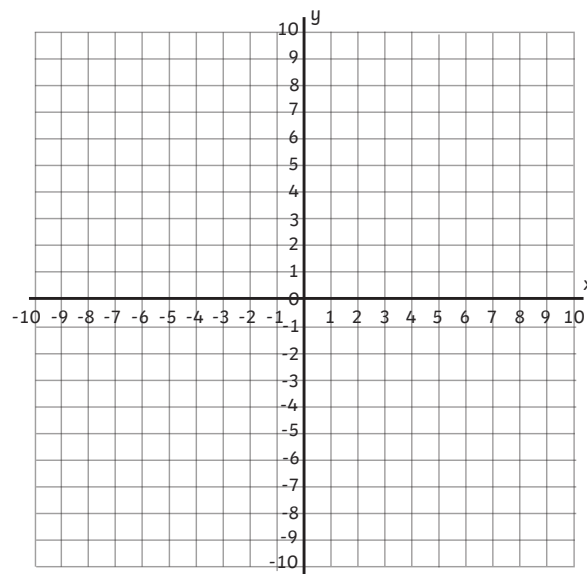
Plot these co-ordinates to reveal a shape: (-8, -5), (-4, -5), (-4, -3), (-6, -3), (-6, 3), (-8, 3)

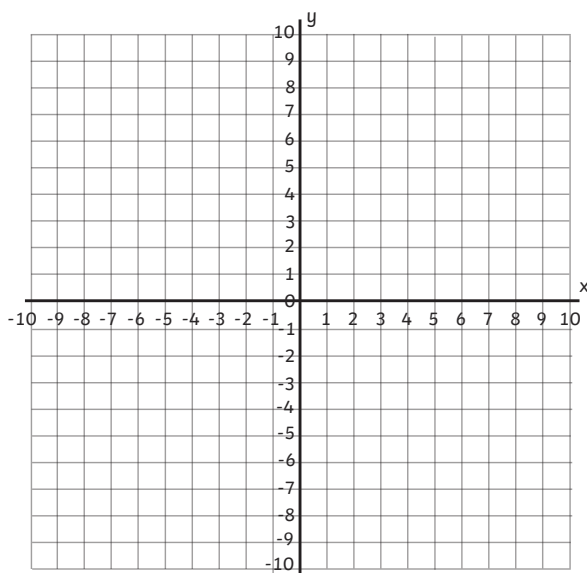Translate the shape right 3, down 2.

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?

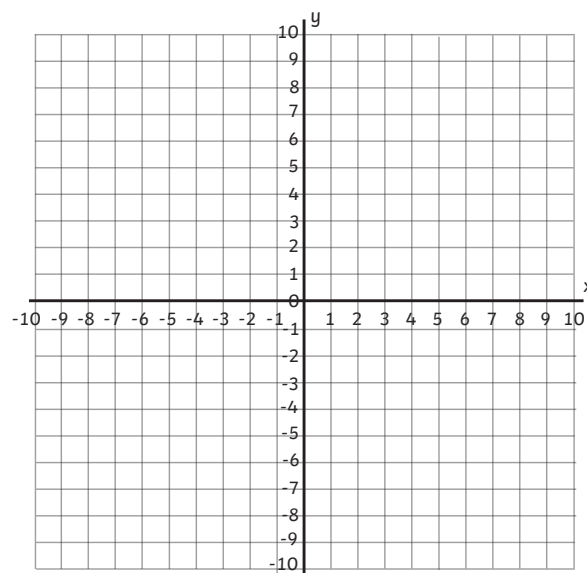Plot these co-ordinates to reveal a shape: (5,3), (8,3), (9,5), (8,7), (5,7), (4,5)

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: **(-4,1), (0,1), (-2,6)**

Translation: **Right 9, down 11**

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

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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)**

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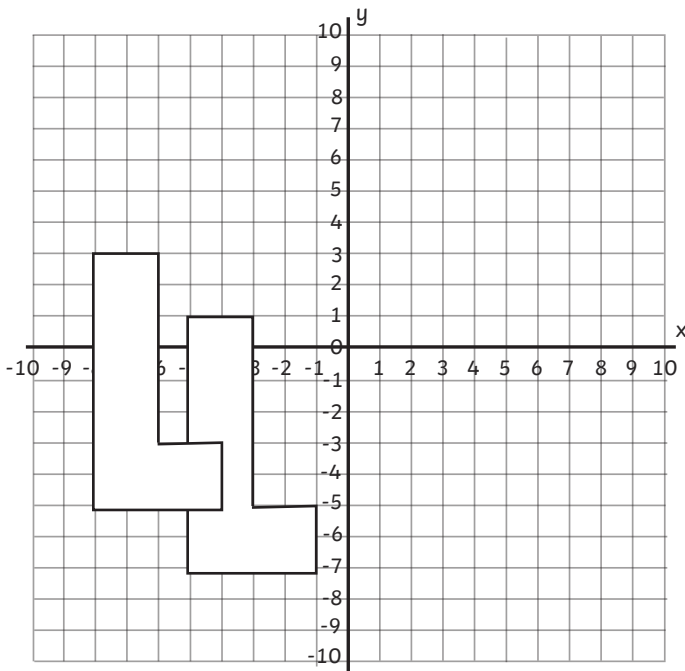Starting co-ordinates: **(3,0), (4,0), (4,2), (5,2), (5,3), (4,3), (4,5), (3, 5), (3,3), (2,3), (2,2), (3,2)**

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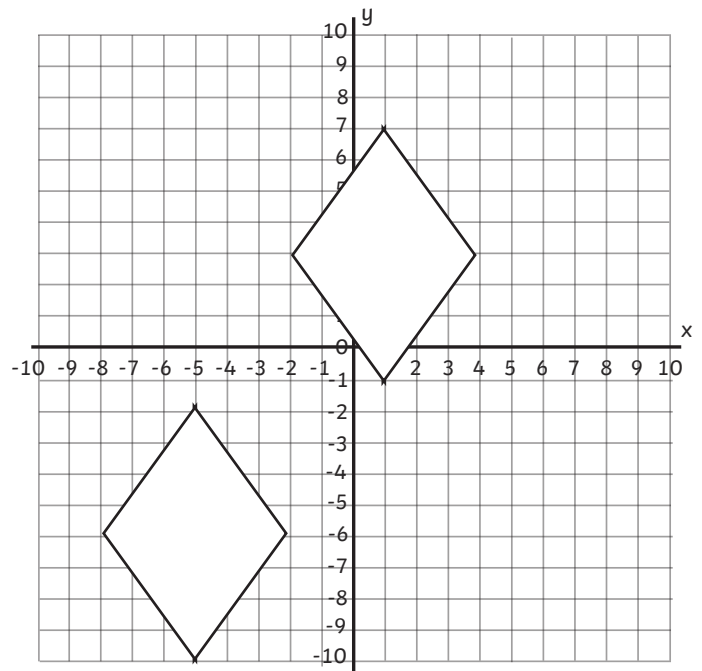
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Starting co-ordinates:
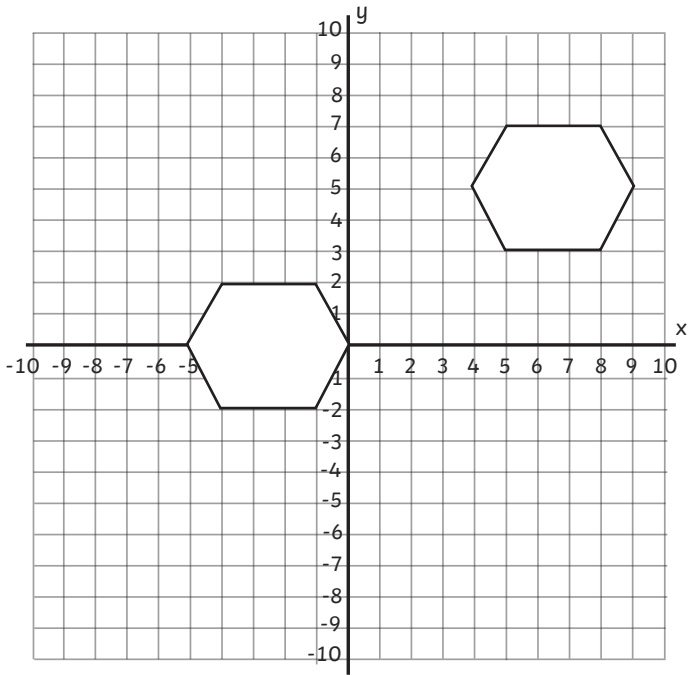**(-5,1), (-3,1), (-2,6) (-6, 6),**

Translation: **Right 9, down 8**

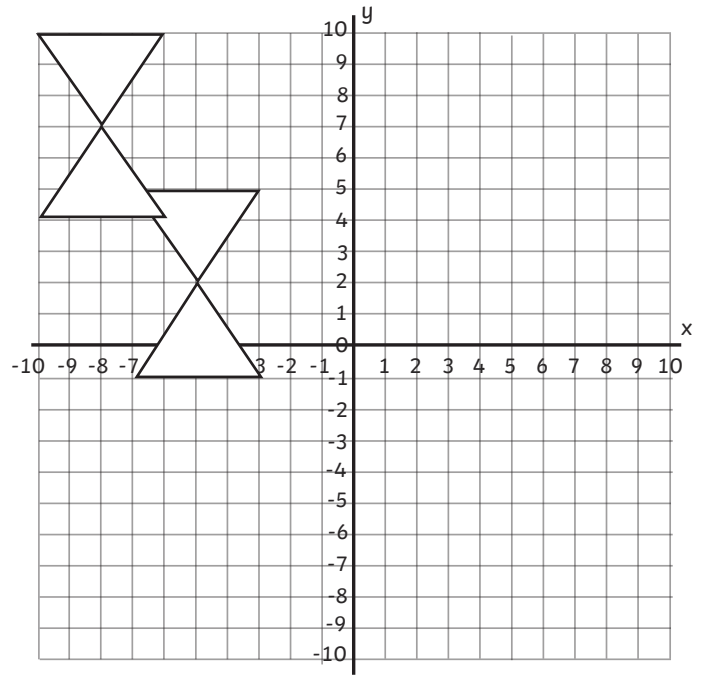Finishing co-ordinates:
**(4,-7), (6,-7), (7,-2), (3,-2)**

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

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

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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)**