

# 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)**

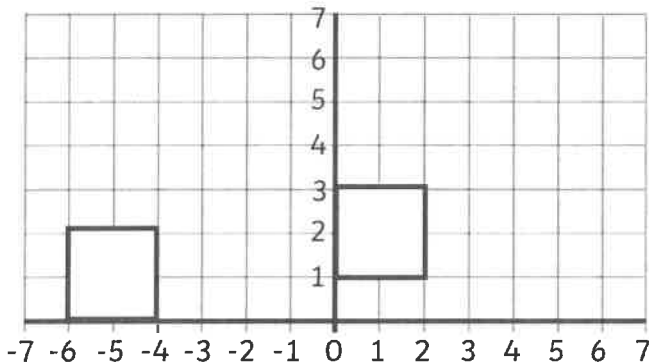
Translation: **Right 8, down 1**

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

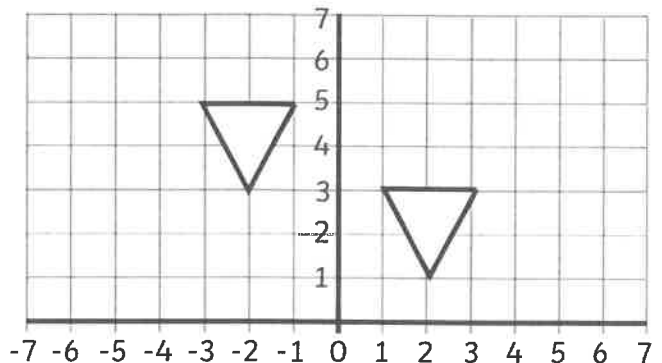
Starting co-ordinates: **(-2,1), (2,1), (0,5)**

Translation: **Right 3, up 1**

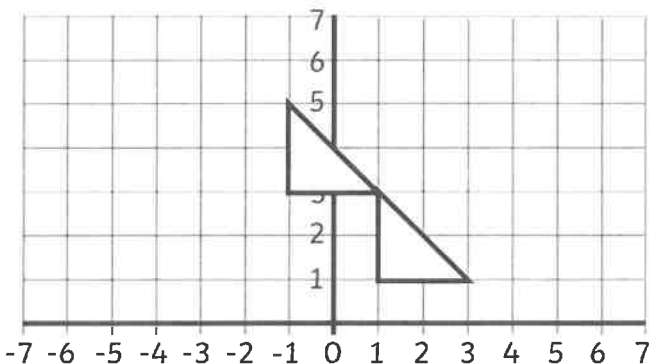
Finishing co-ordinates: **(1,2), (5,2), (3,6)**



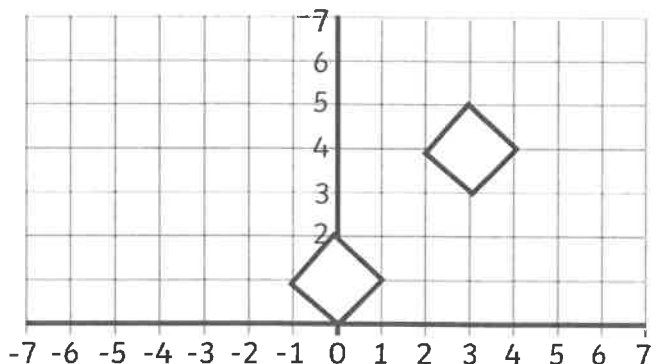
What are the co-ordinates of the new shape? **(-6,0), (-4,0), (-4,2), (-6,2)**



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)**

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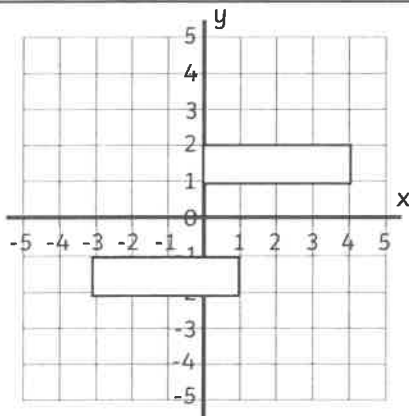
Describe the positions and translations of the 2D shapes.

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)**

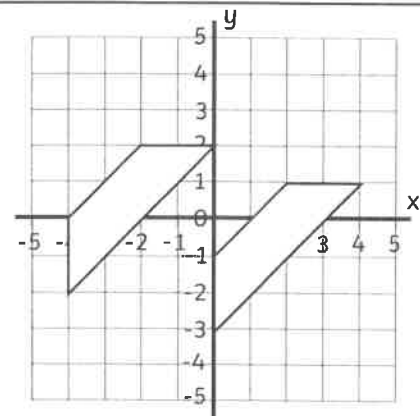
Starting co-ordinates:  
**(-2,-1), (2,-1), (-2,3)**  
 Translation: **Left 3, down 3**  
 Finishing co-ordinates:  
**(-5,-4), (-1,-4), (-5,0)**

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)**

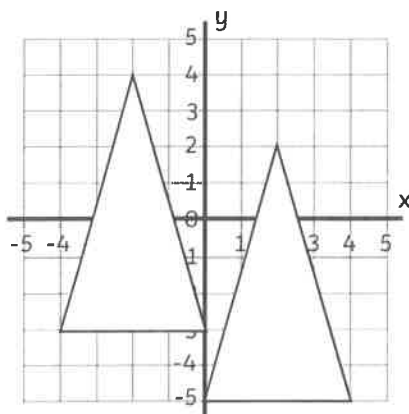
Starting co-ordinates:  
**(-3,-1), (1,-1), (1,1), (-1,1), (-1,3), (-3,3)**  
 Translation: **Right 1, down 4**  
 Finishing co-ordinates:  
**(-2,-5), (2,-5), (2,3), (0,-3), (0,-1), (-2,-1)**



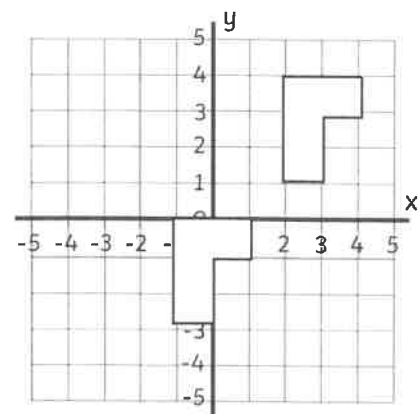
What are the co-ordinates of the new shape? **(0, 1), (4,1), (4,2), (0,2)**



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**

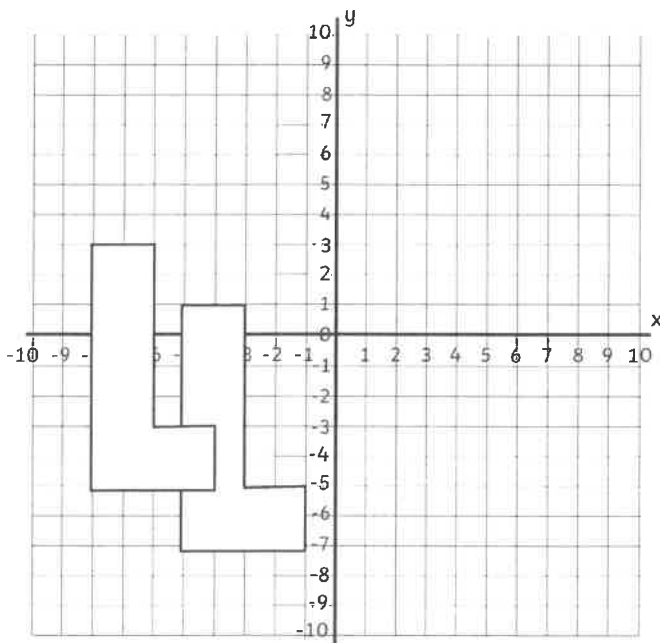
Finishing co-ordinates:  **$(-7,-4)$ ,  $(-6,-4)$ ,  
 $(-6,-2)$ ,  $(-5,-2)$ ,  $(-5,-1)$ ,  $(-6,-1)$ ,  $(-6,1)$ ,  
 $(-7,1)$ ,  $(-7,-1)$ ,  $(-8,-1)$ ,  $(-8,-2)$ ,  $(-7,-2)$**

Starting co-ordinates:

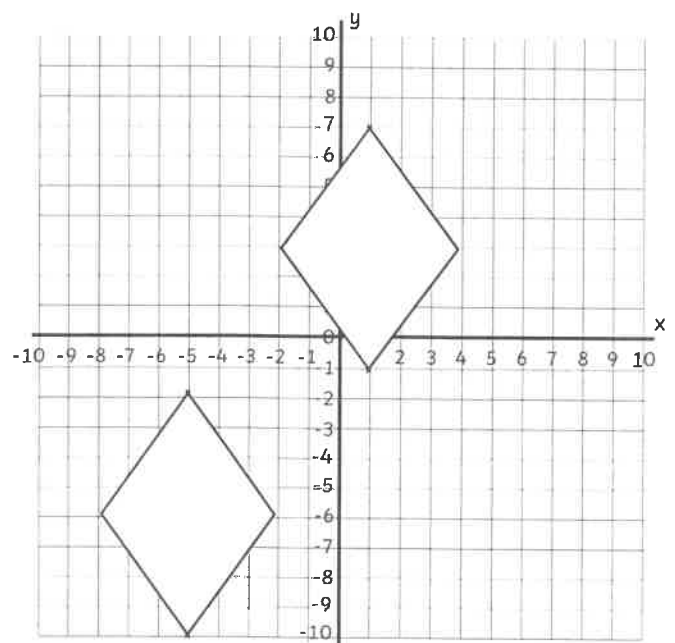
**$(-5,1)$ ,  $(-3,1)$ ,  $(-2,6)$ ,  $(-6,6)$ ,**

Translation: **Right 9, down 8**

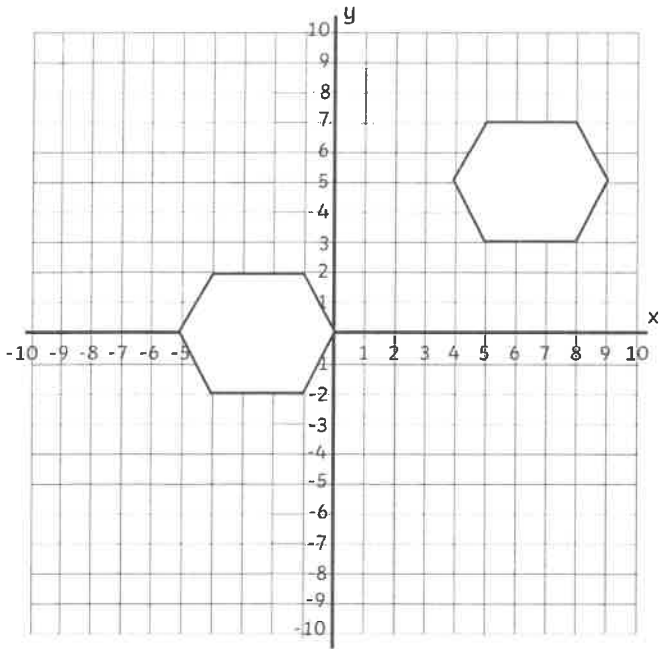
Finishing co-ordinates:  
 **$(4,-7)$ ,  $(6,-7)$ ,  $(7,-2)$ ,  $(3,-2)$**



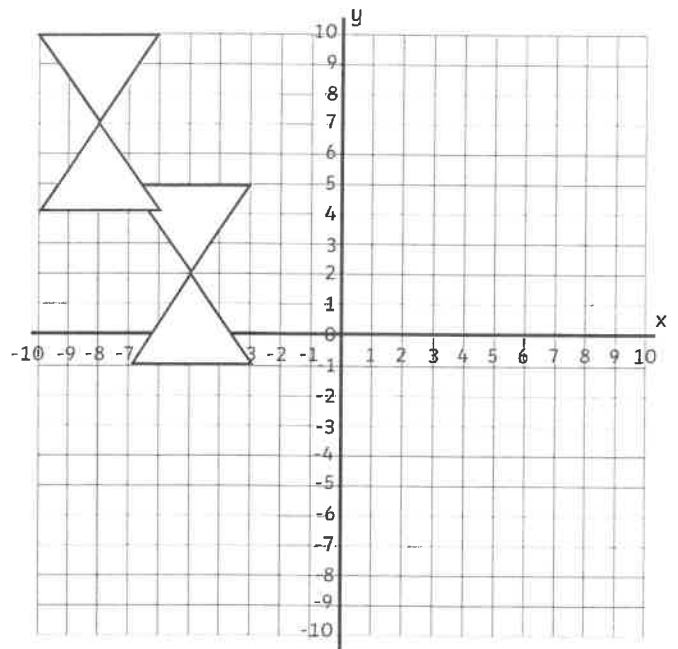
What are the co-ordinates of the new shape?  
 **$(-5,-7)$ ,  $(-1,-7)$ ,  $(-1,-5)$ ,  $(-3,-5)$ ,  
 $(-3,1)$ ,  $(-5,1)$**



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?  
 **$(-6, 4)$ ,  $(-8, 7)$ ,  $(-10, 10)$ ,  $(-6, 10)$ ,  $(-10, 4)$**