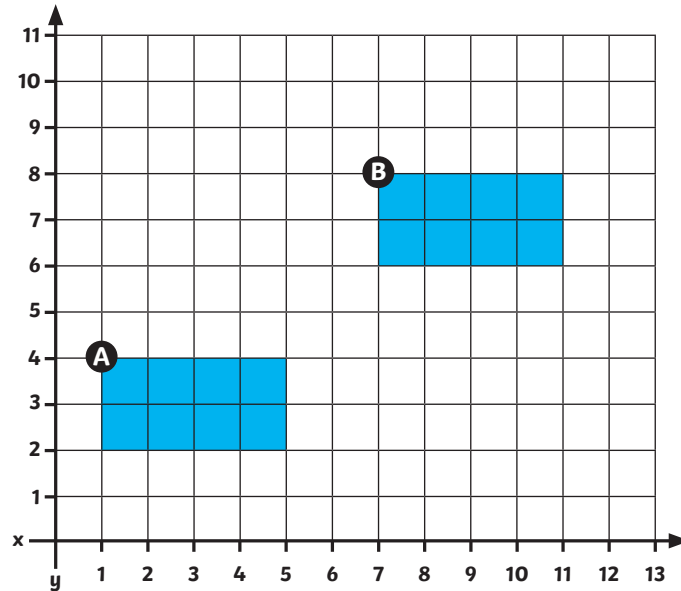


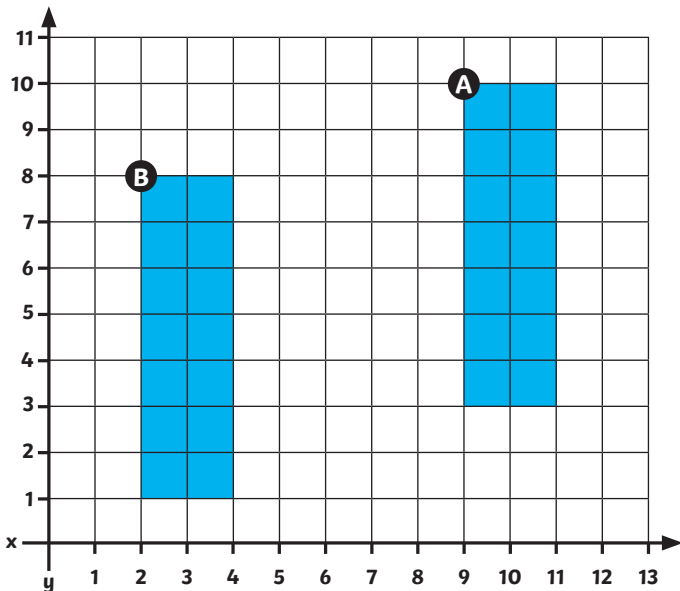
# Translation of Shapes

Name these shapes and describe how they have been translated from point A to point B. Remember to say how many squares left/right the shape has moved and then how many squares up/down the shape has moved, e.g.



The rectangle has been translated 6 squares right and 4 squares up.

1.

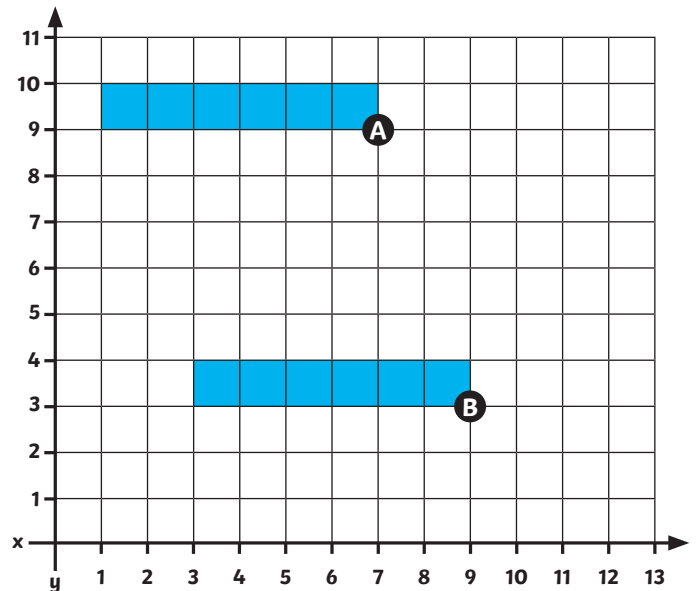


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2.



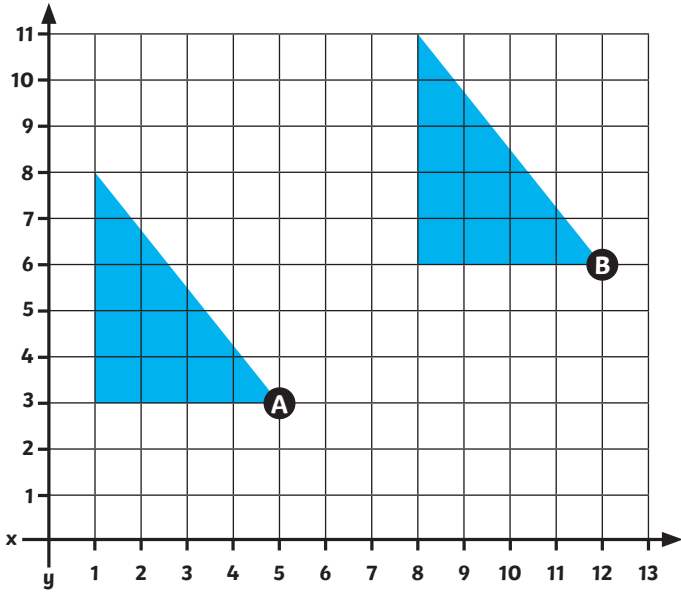
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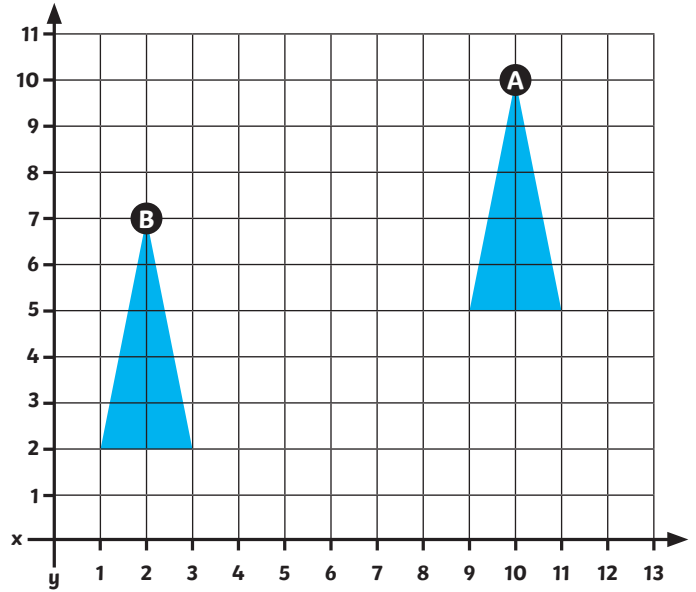
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# Translation of Shapes

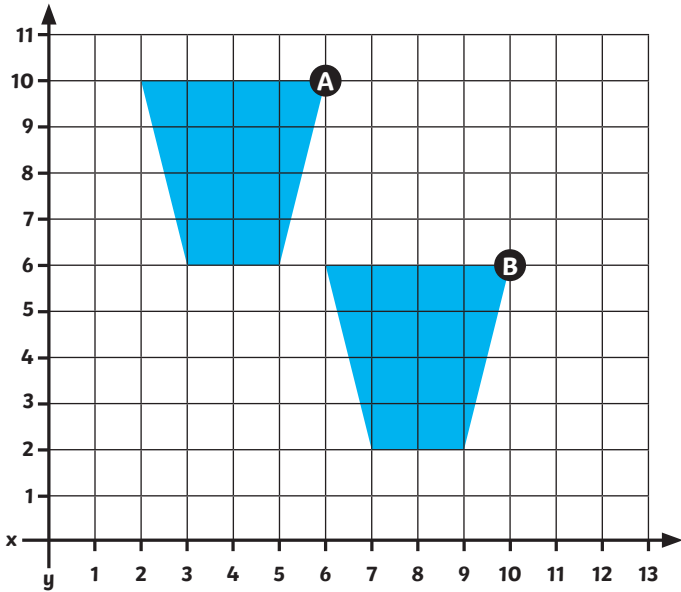
3.



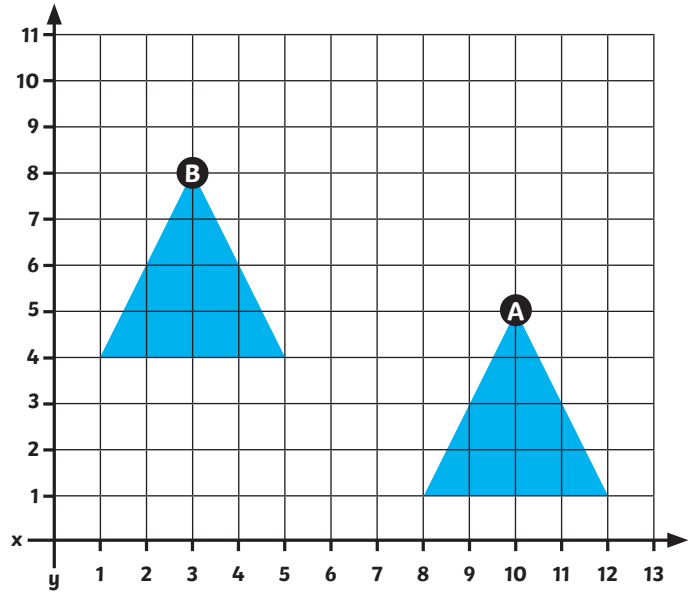
4.



5. How has the shape been translated? What are the coordinates of points A and B?

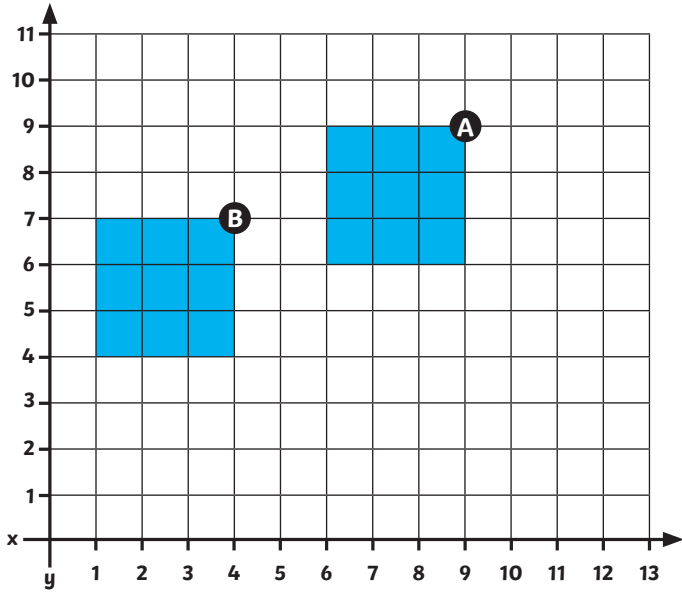


6. How has the shape been translated? What are the coordinates of points A and B?



# Translation of Shapes

7. How has the shape been translated? What are the coordinates of points A and B?



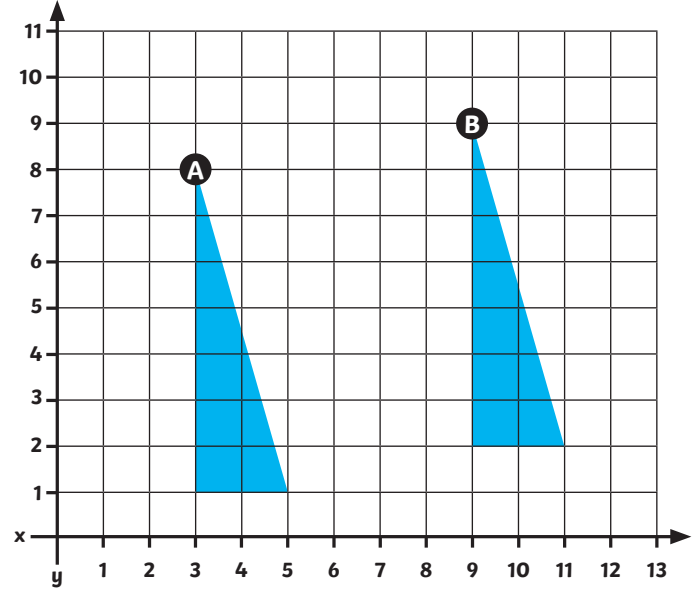
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8. How has the shape been translated? What are the coordinates of points A and B?



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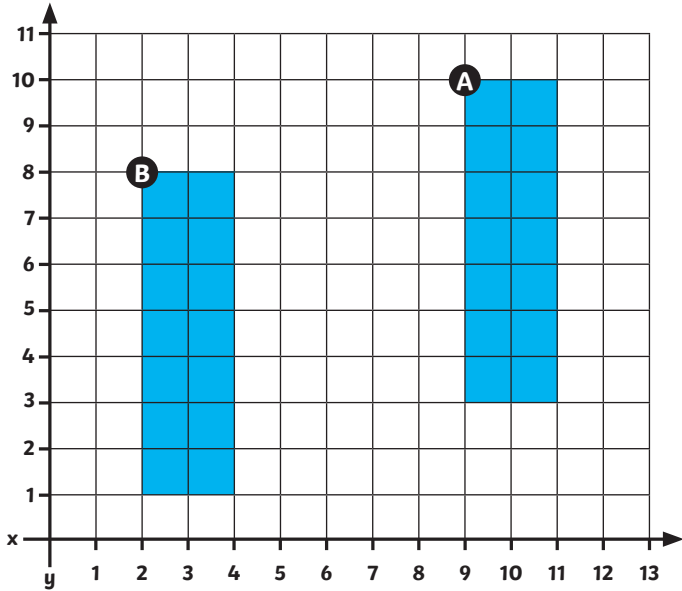
# Answers

1. The rectangle has been translated 7 squares left and 2 squares down.
2. The rectangle has been translated 2 squares right and 6 squares down.
3. The right-angled triangle has been translated 7 squares right and 3 squares up.
4. The isosceles triangle has been translated 8 squares left and 3 squares down.
5. The trapezium has been translated 4 squares right and 4 squares down.  
A – (6,10) B – (10,6)
6. The equilateral triangle has been translated 7 squares left and 3 squares up.  
A – (10,5) B – (3,8)
7. The square has been translated 5 squares left and 2 squares down.  
A – (9,9) B – (4,7)
8. The right-angled triangle has been translated 6 squares right and 1 square up.  
A – (3,8) B – (9,9)

# Translation of Shapes

Name these shapes and describe how they have been translated from point A to point B. Remember to say how many squares left/right the shape has moved and then how many squares up/down the shape has moved. Can you write the coordinates of the translated shape?

1.




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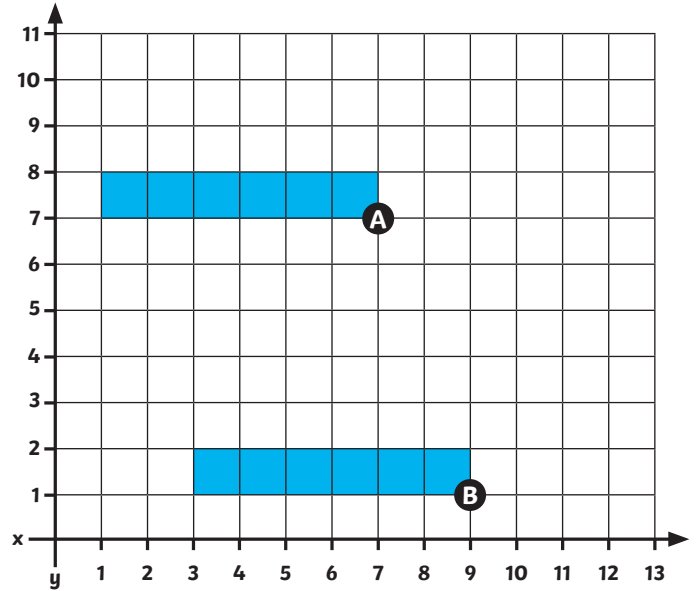


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2.




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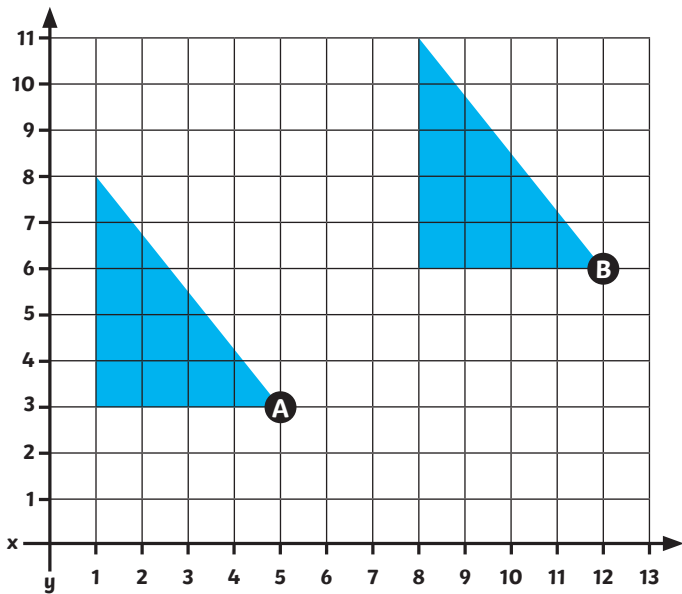


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3.




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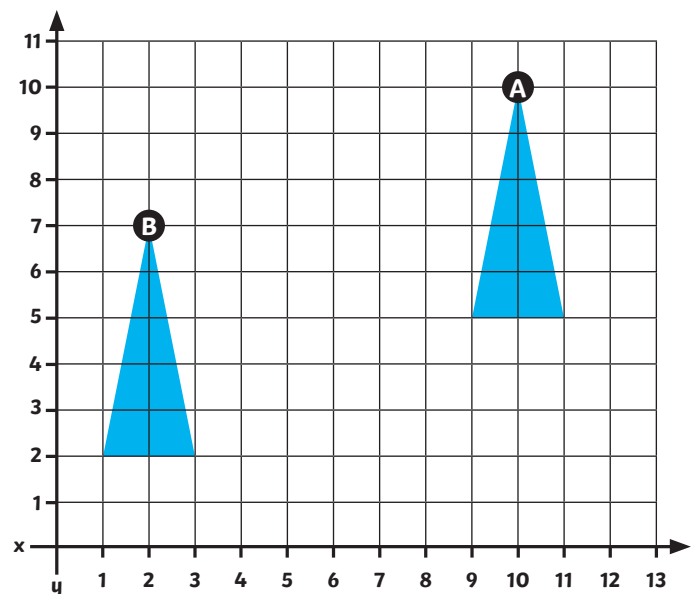


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4.




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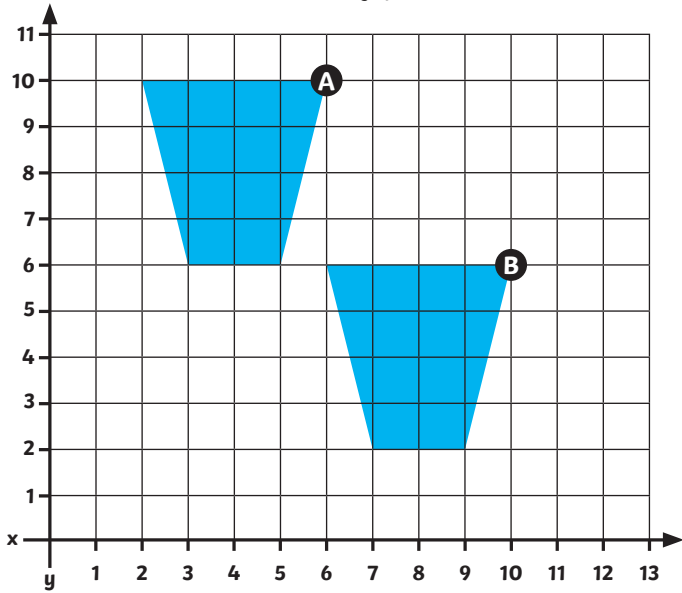
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# Translation of Shapes

5. How has the shape been translated? What are the coordinates of points A and B?




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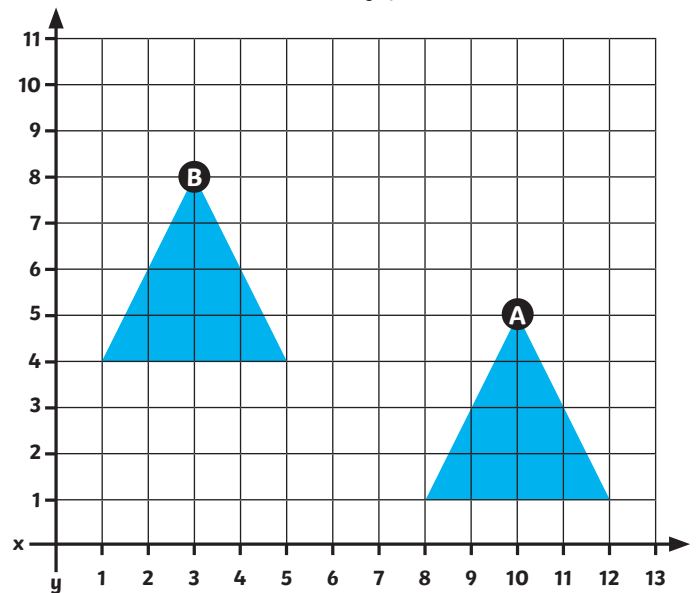


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6. How has the shape been translated? What are the coordinates of points A and B?




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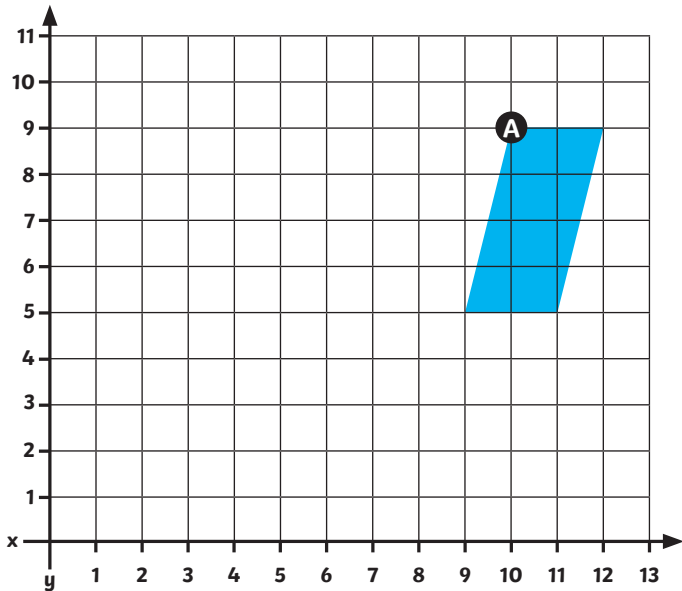


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7. Shape A has been translated 8 squares left and 1 square down. Draw the new shape and write the coordinates.




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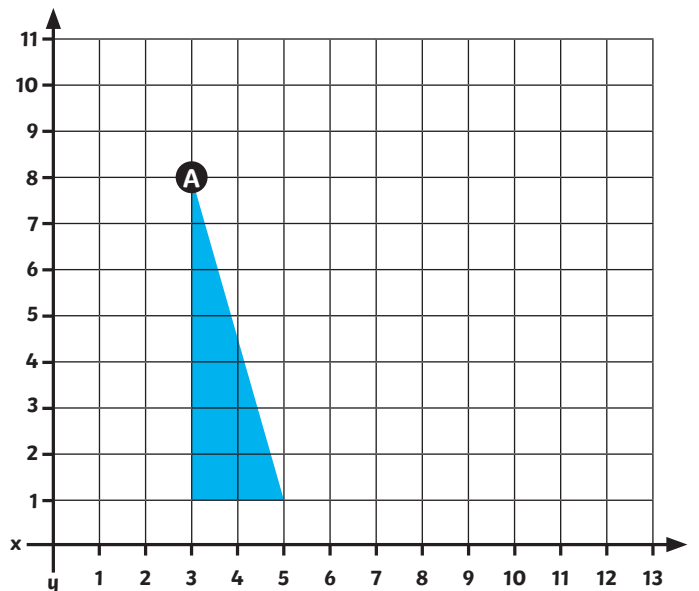


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8. Shape A has been translated 6 squares right and 1 square up. Draw the new shape and write the coordinates.




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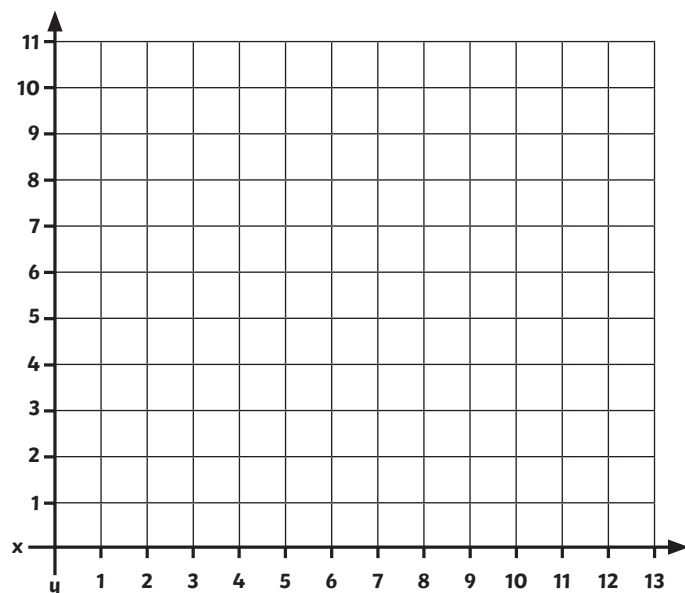
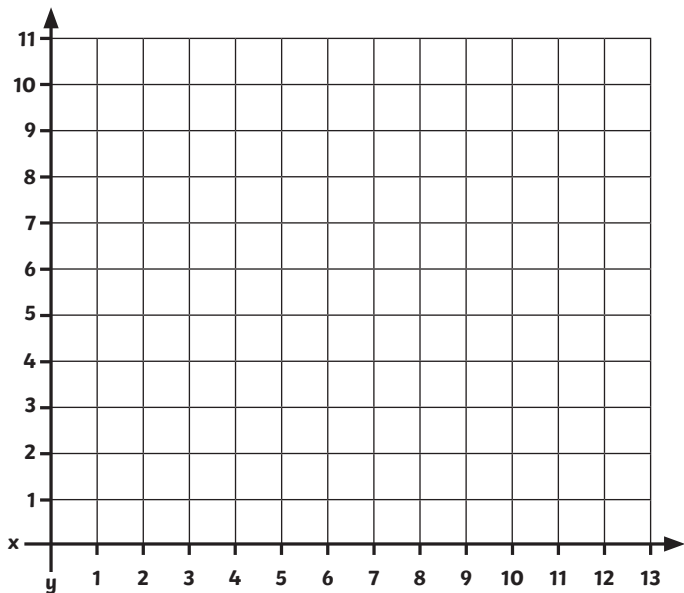
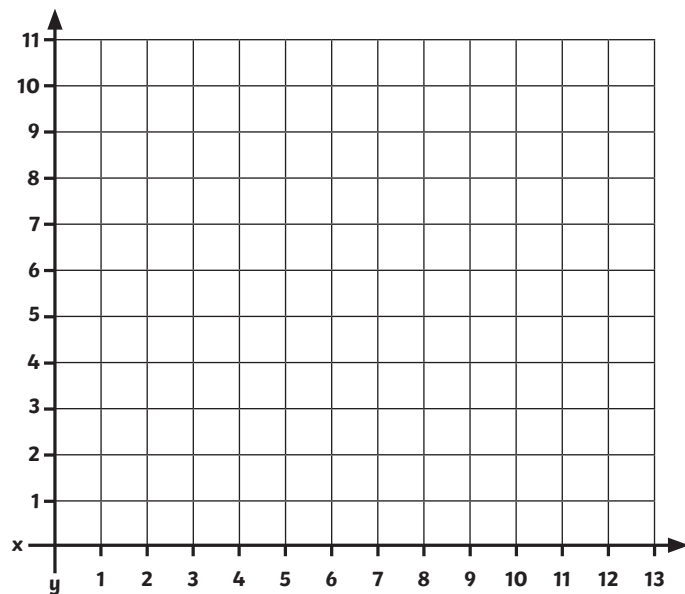
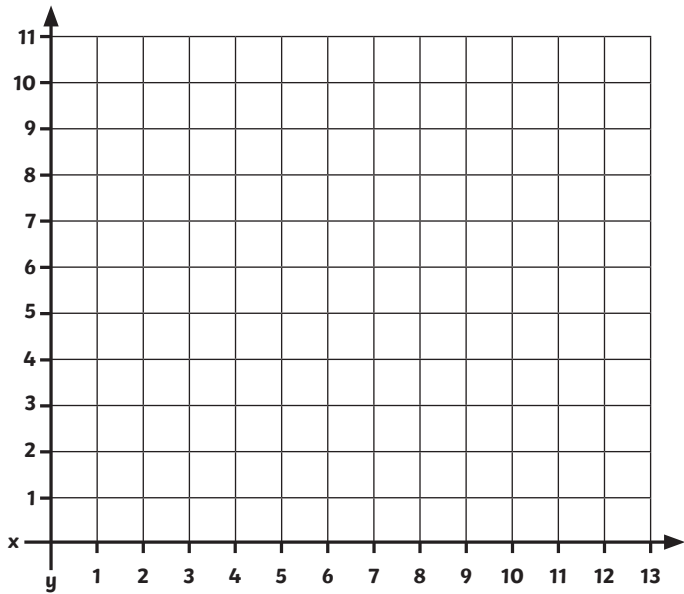


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# Translation of Shapes

## Challenge

Draw some shapes for a friend using the blank grids and ask them to tell you how they have been translated.



# Answers

1. The rectangle has been translated 7 squares left and 2 squares down.  
B – (2,8) (4,8) (4,1) (2,1)
2. The rectangle has been translated 2 squares right and 6 squares down.  
B – (9,1) (9,2) (3,2) (3,1)
3. The right-angled triangle has been translated 7 squares right and 3 squares up.  
B – (12,6) (8,11) (8,6)
4. The isosceles triangle has been translated 8 squares left and 3 squares down.  
B – (2,7) (1,2) (3,2)
5. The trapezium has been translated 4 squares right and 4 squares down.  
B – (10,6) (6,6) (7,2) (9,2)
6. The equilateral triangle has been translated 7 squares left and 3 squares up.  
B – (3,8) (1,4) (5,4)
7. B – (4,8) (2,8) (1,4) (3,4)
8. B – (9,9) (9,2) (11,2)

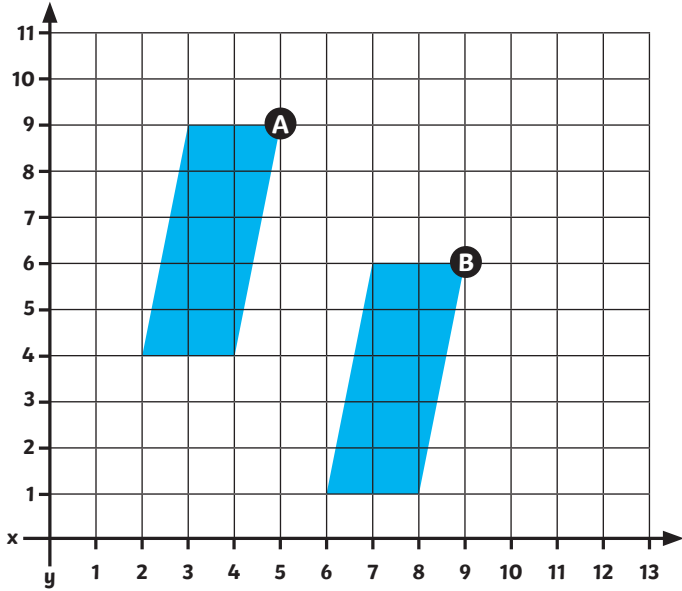


# Translation of Shapes

## Section A

Name these shapes and describe how they have been translated from point A to point B. Can you write the coordinates of the translated shape?

1.

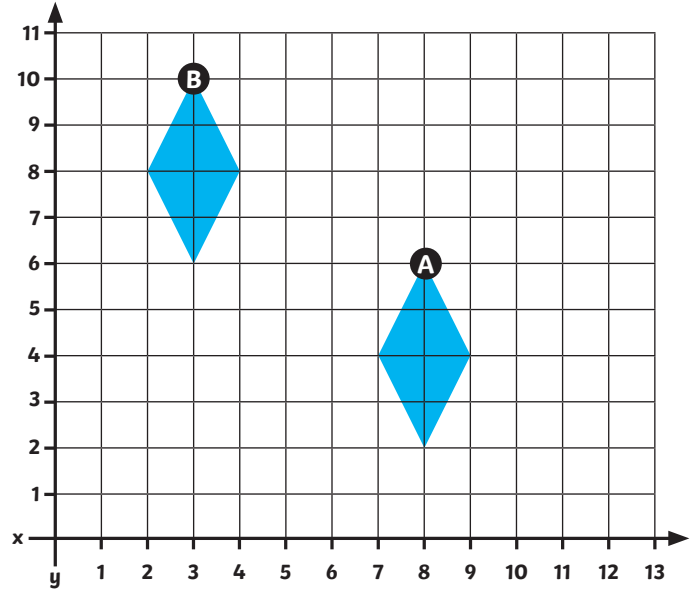


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2.



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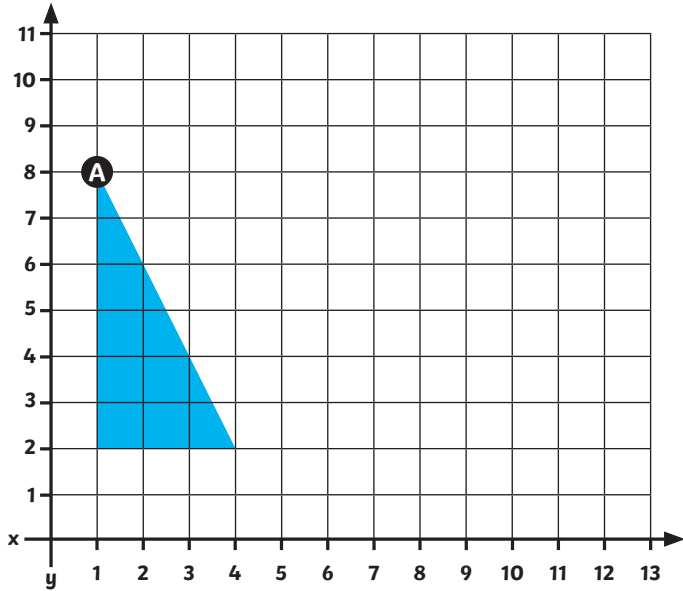
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# Translation of Shapes

## Section B

Name these shapes and draw their new position on the grid after they have been translated. Write the coordinates of the translated shape.

3. Shape A has been translated 5 squares right and 2 squares down.

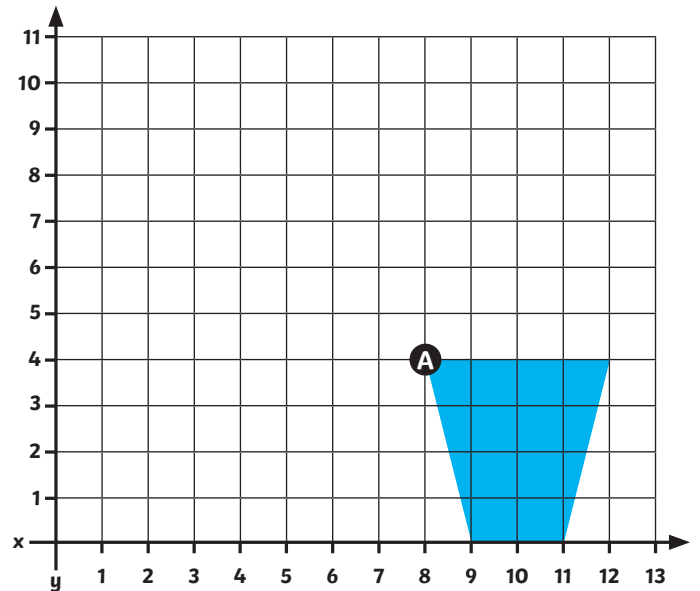


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4. Shape A has been translated 3 squares left and 7 squares up.

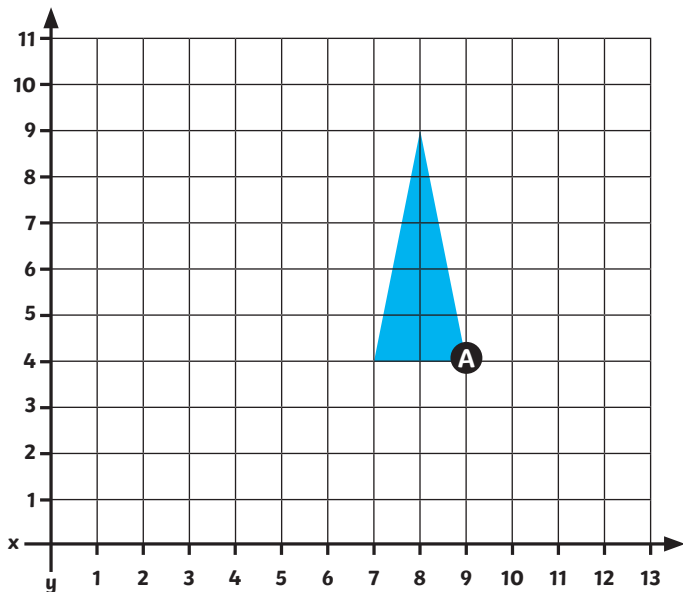


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5. Shape A has been translated 6 squares left and 4 squares down.

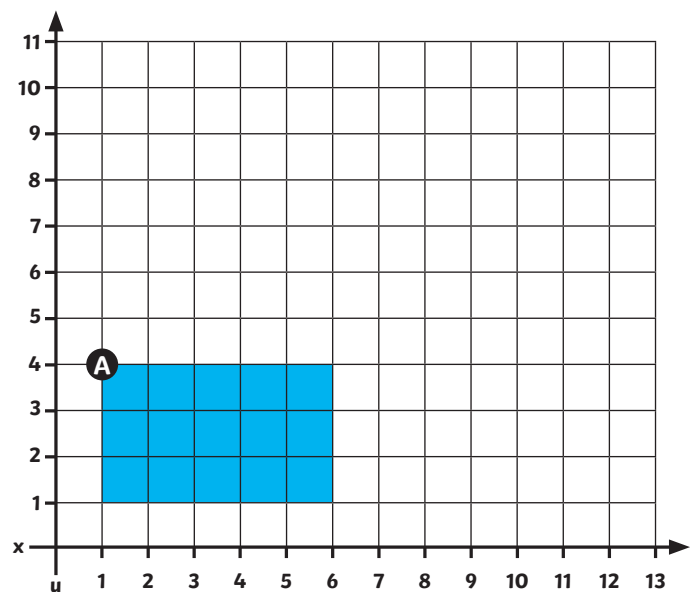


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6. Shape A has been translated 7 squares right and 5 squares up.



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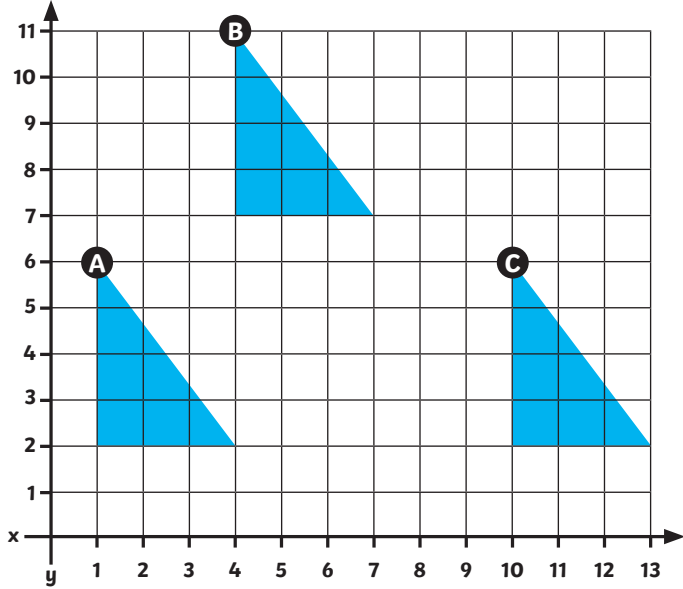
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# Translation of Shapes

## Section C

Shape A has been translated to shape B, and then from shape B to shape C. Write both translations.

7.

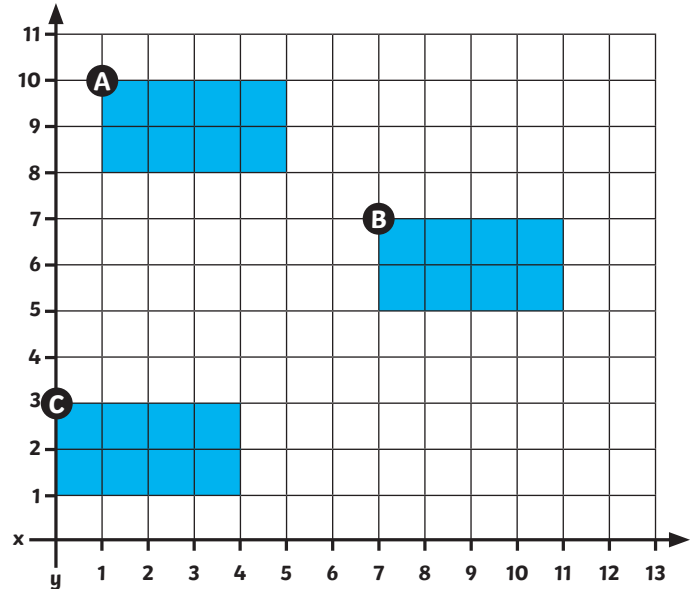


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8.



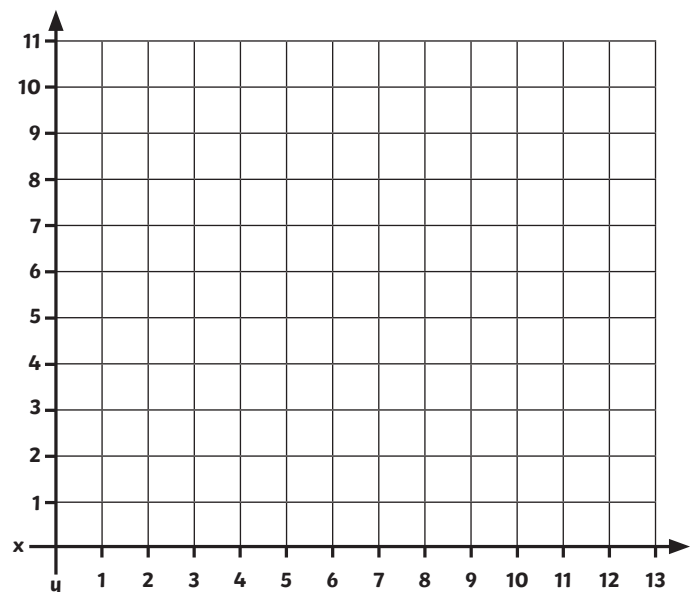
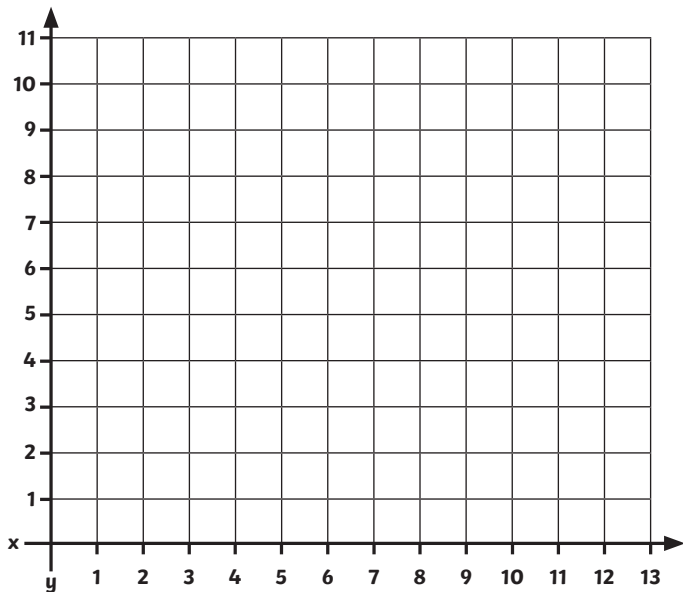
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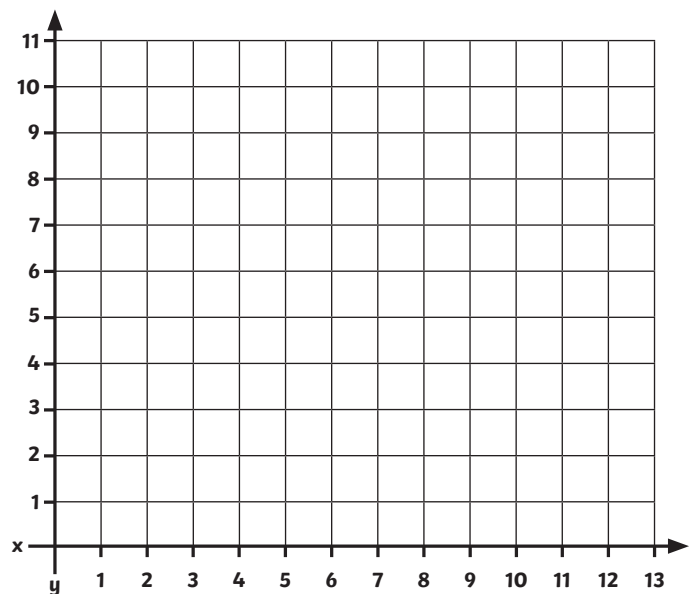
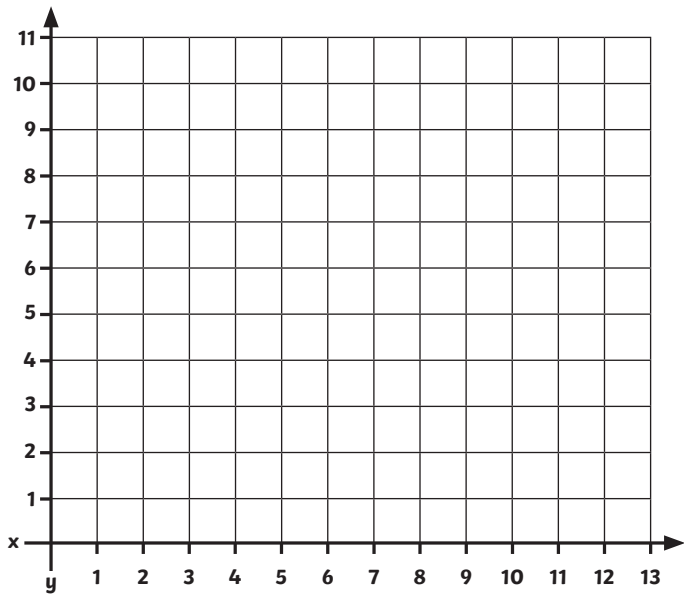
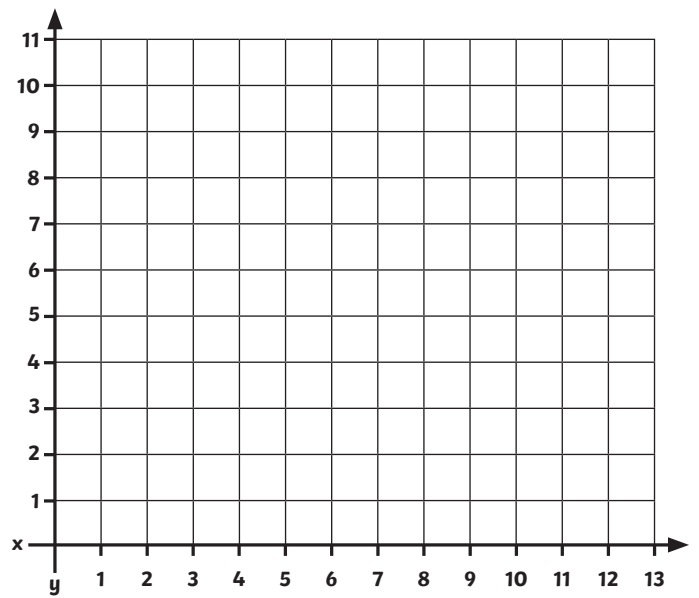
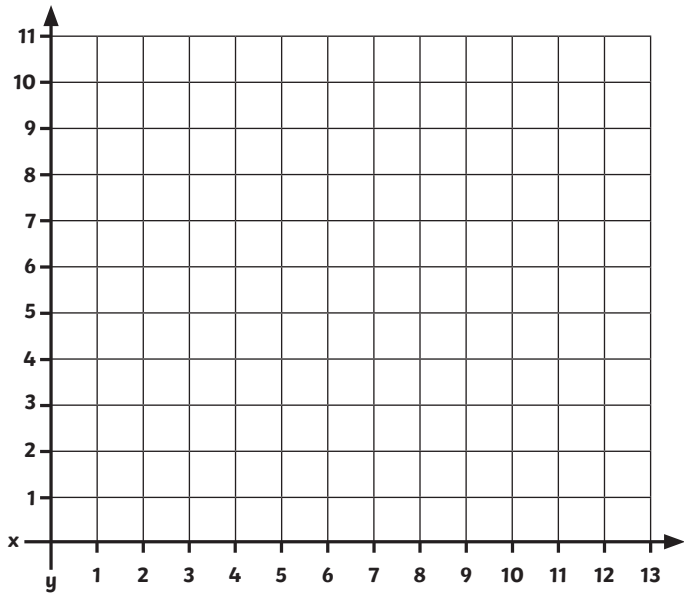
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## Challenge

Draw some shapes for a friend using the blank grids and ask them to tell you how they have been translated.



# Translation of Shapes



# Answers

1. The parallelogram has been translated 4 squares right and 3 squares down.  
B – (9,6) (8,1) (6,1) (7,6)
2. The diamond/rhombus has been translated as 5 squares left and 4 squares up.  
B – (3,10) (3,6) (4,8) (2,8)
3. The shape is a right-angled triangle.  
B – (6,0) (9,0) (6,6)
4. The shape is a trapezium.  
B – (5,11) (9,11) (8,7) (6,7)
5. The shape is an isosceles triangle.  
B – (1,0) (3,0) (2,5)
6. The shape is a rectangle.  
B – (8,9) (8,6) (13,6) (13,9)
7. Shape – right-angled triangle.  
A – B = 3 squares right and 5 squares up.  
B – C = 6 squares right and 5 squares down.
8. The shape is a rectangle.  
A – B = 6 squares right and 3 squares down.  
B – C = 7 squares left and 4 squares down.