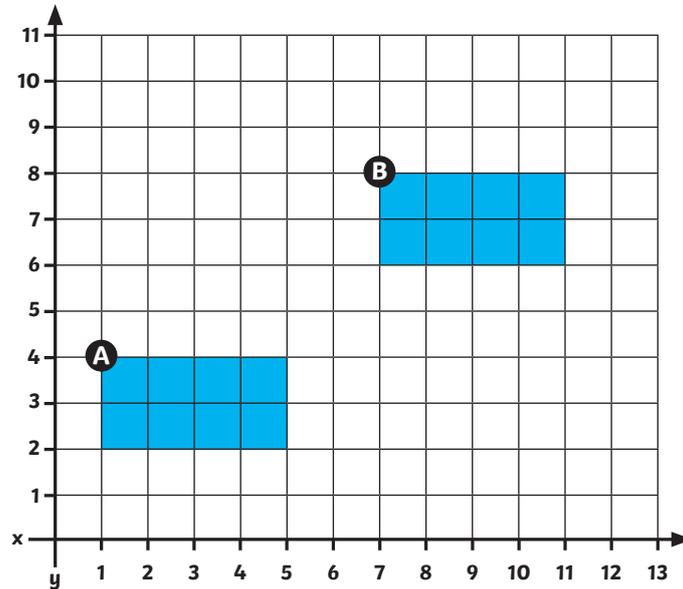


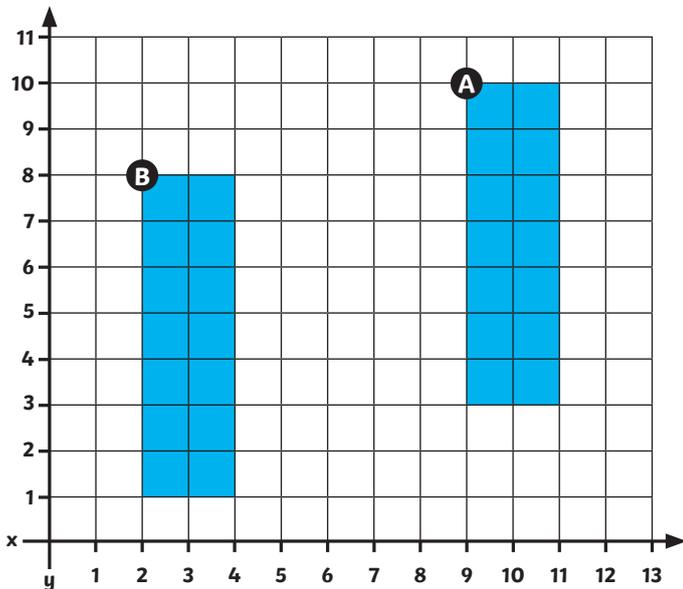
Translation of Shapes

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.

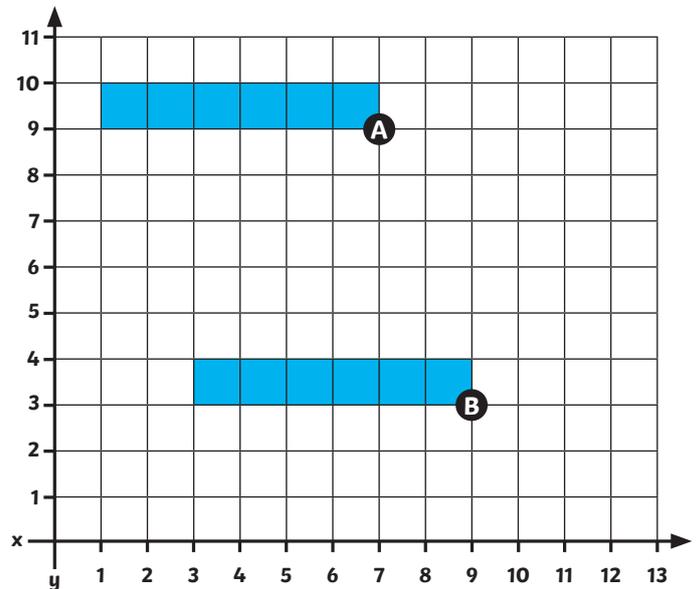


The rectangle has been translated 6 squares right and 4 squares up.

1.

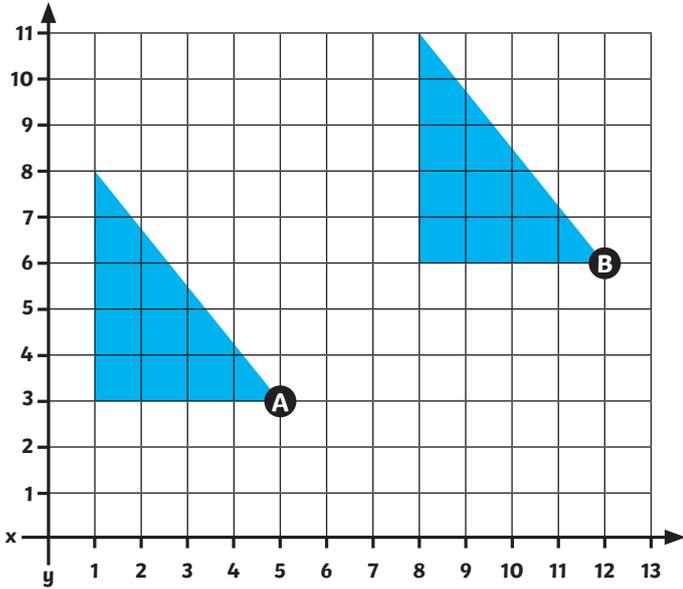


2.

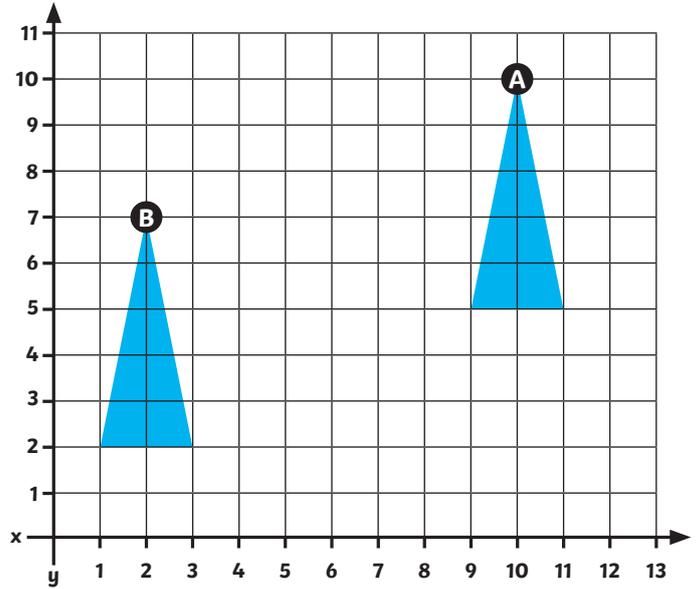


Translation of Shapes

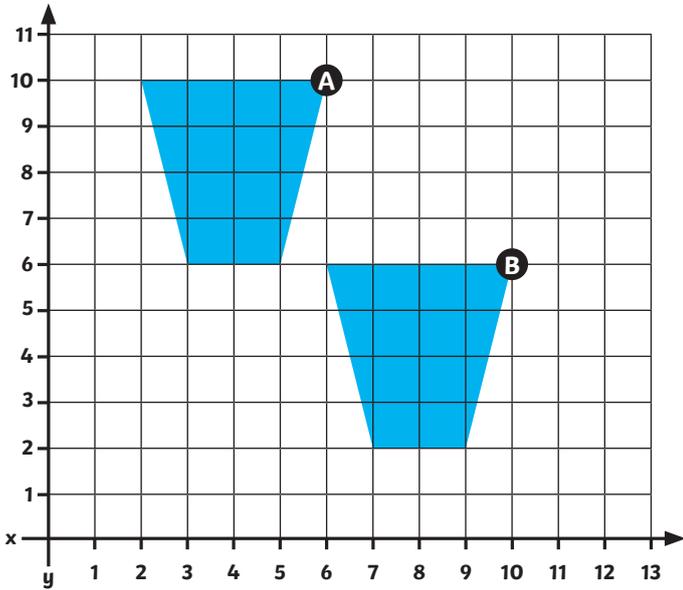
3.



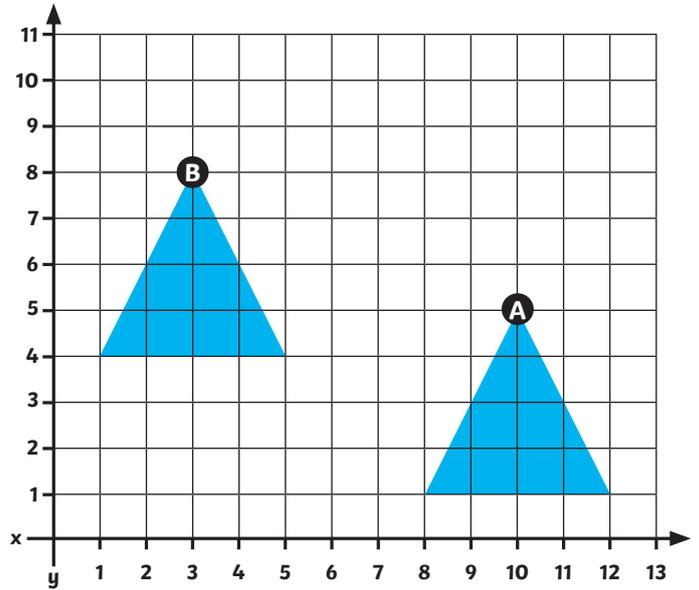
4.



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

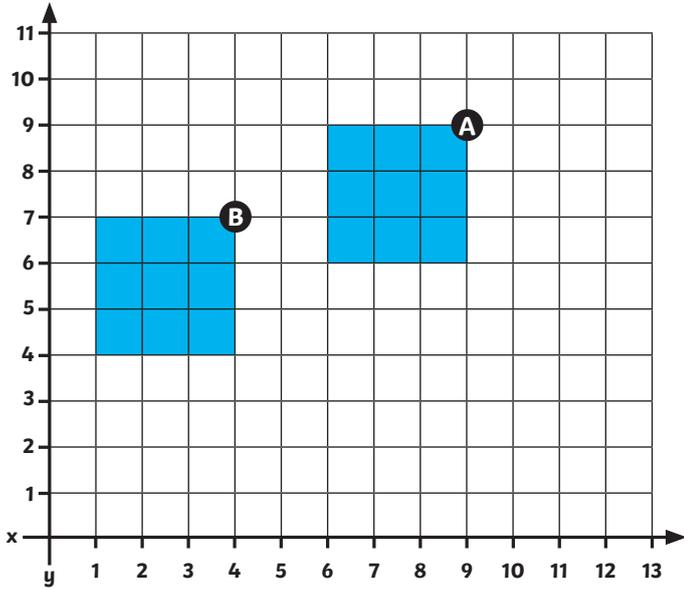


6. How has the shape been translated? What are the coordinates of points A and B?

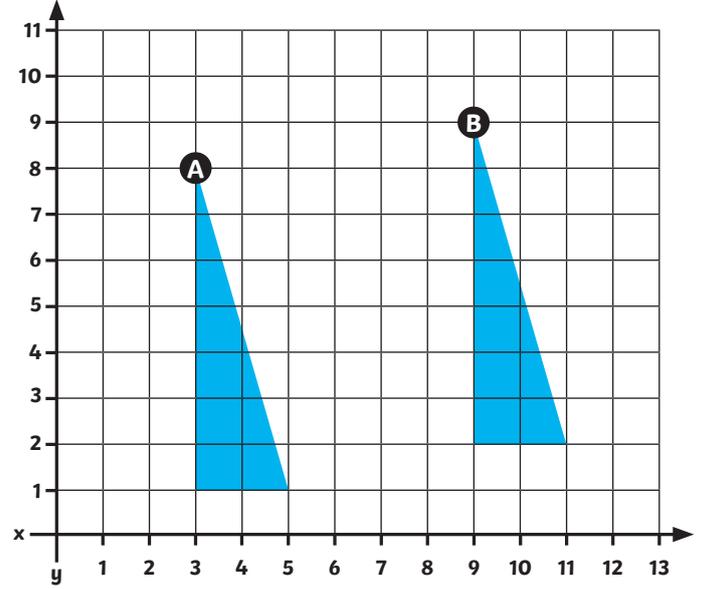


Translation of Shapes

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



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



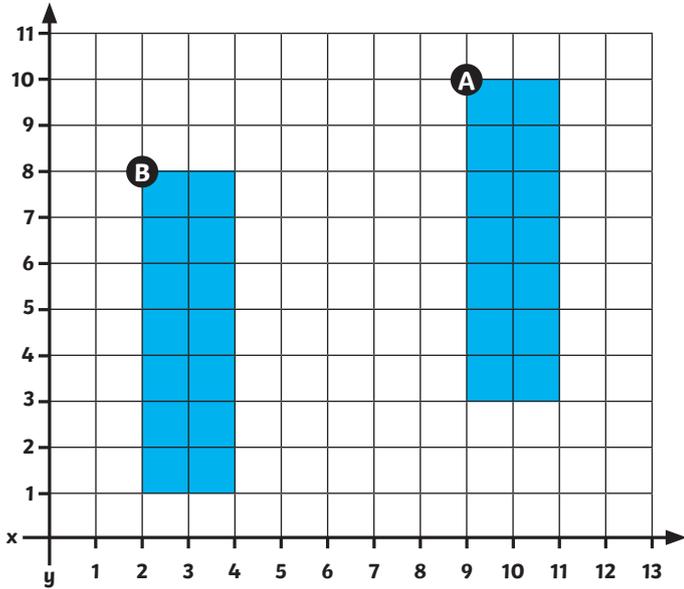
Answers

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)

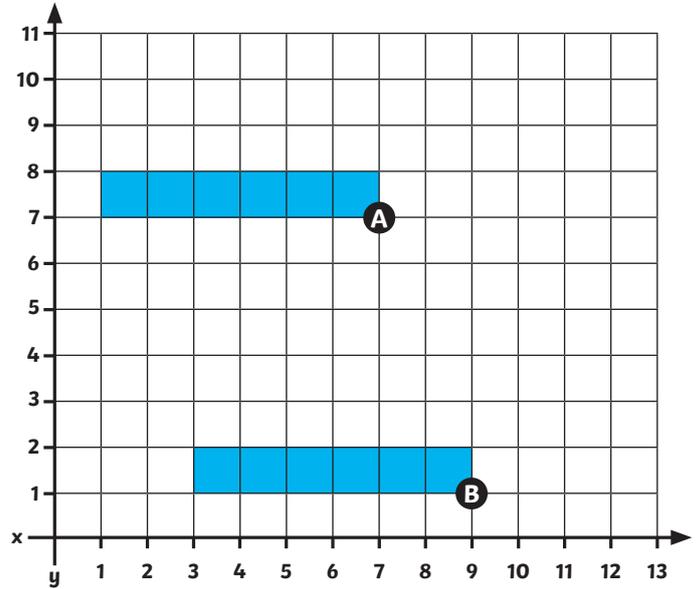
Translation of Shapes

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?

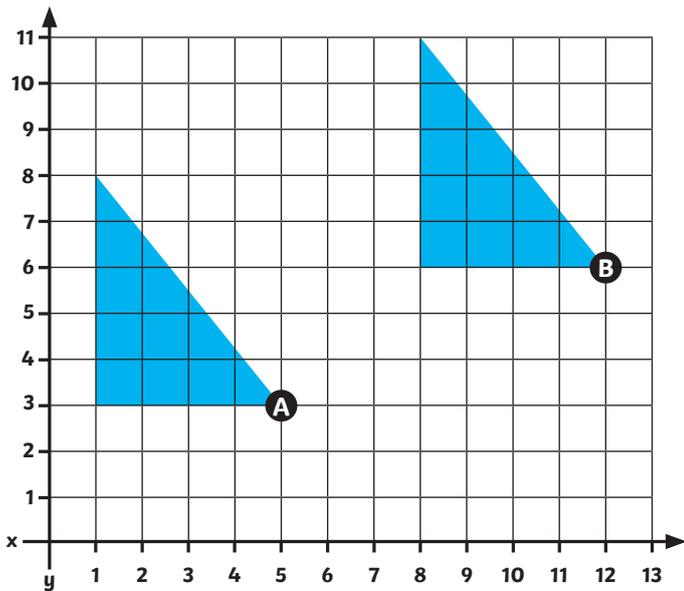
1.



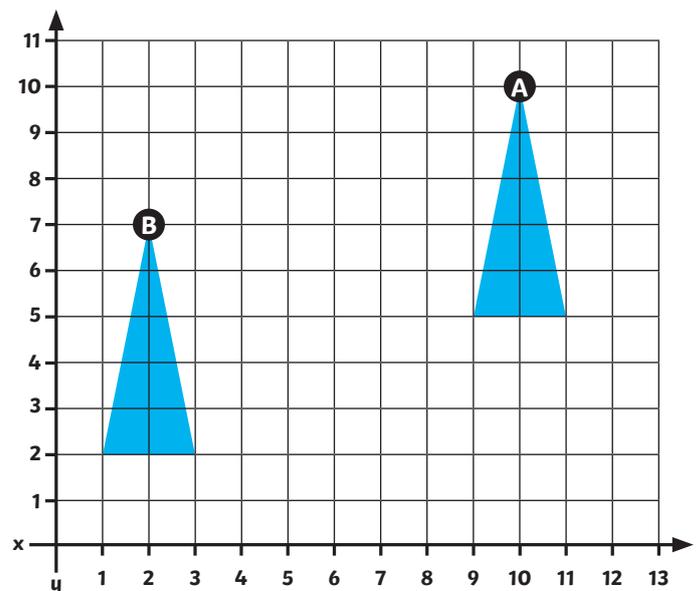
2.



3.

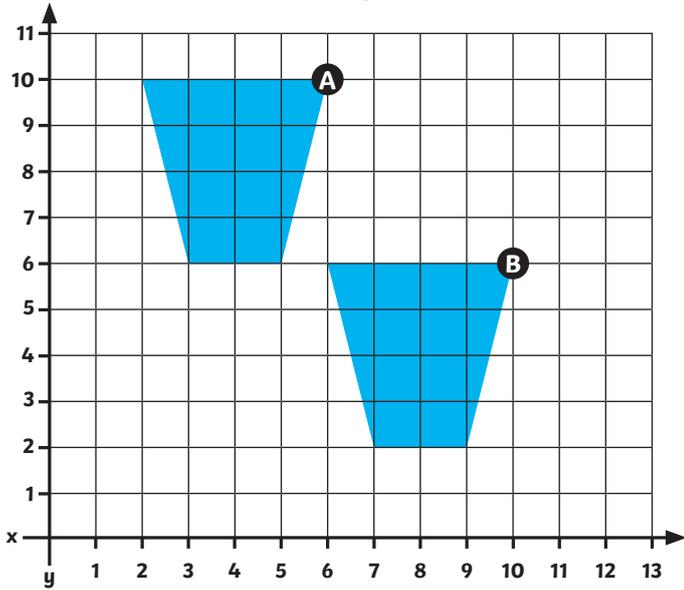


4.

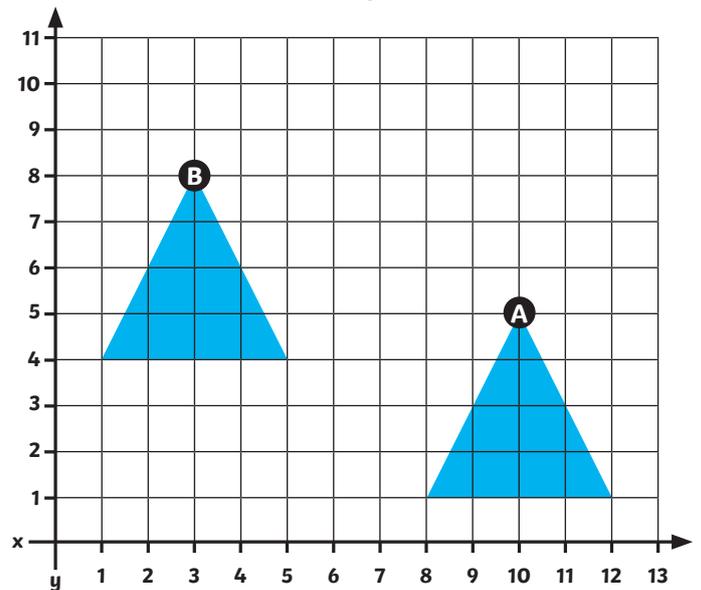


Translation of Shapes

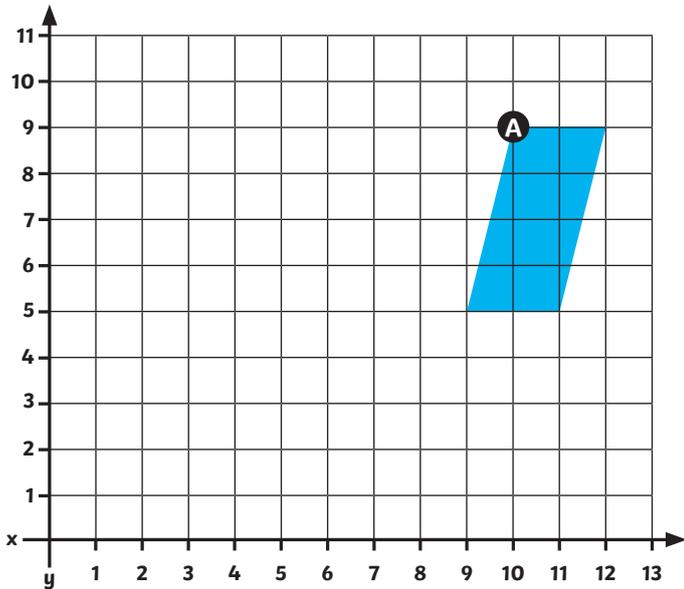
5. How has the shape been translated? What are the coordinates of points A and B?



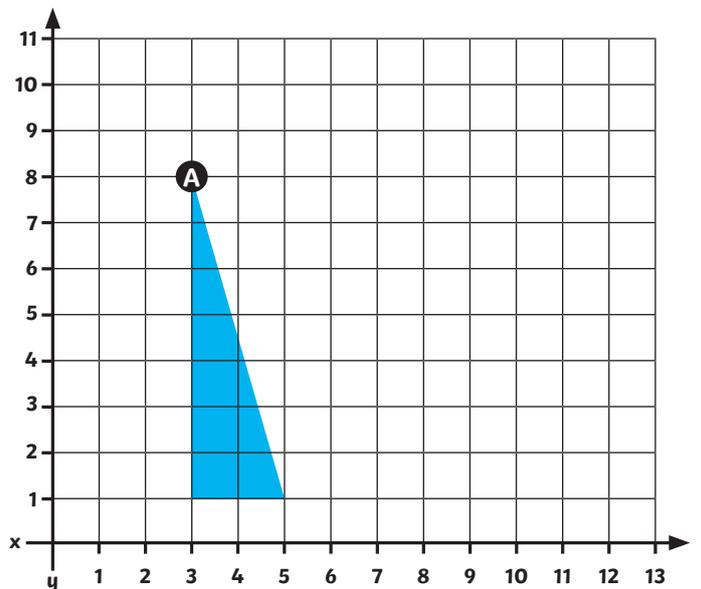
6. How has the shape been translated? What are the coordinates of points A and B?



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



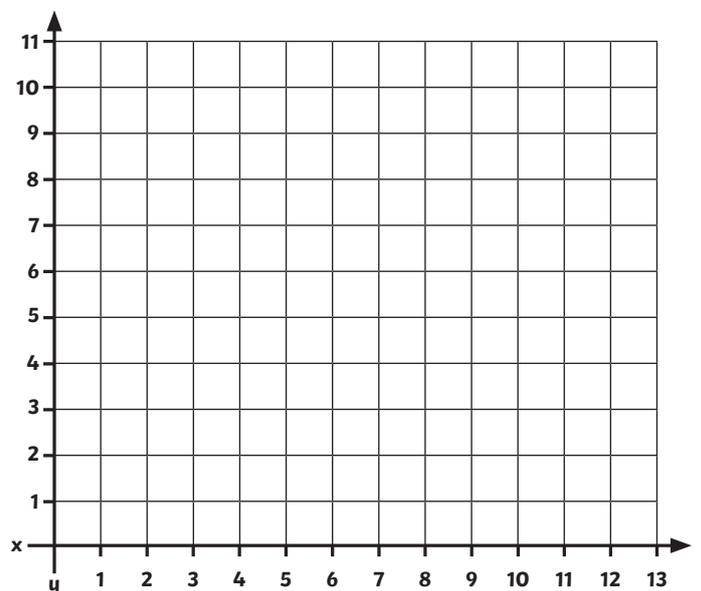
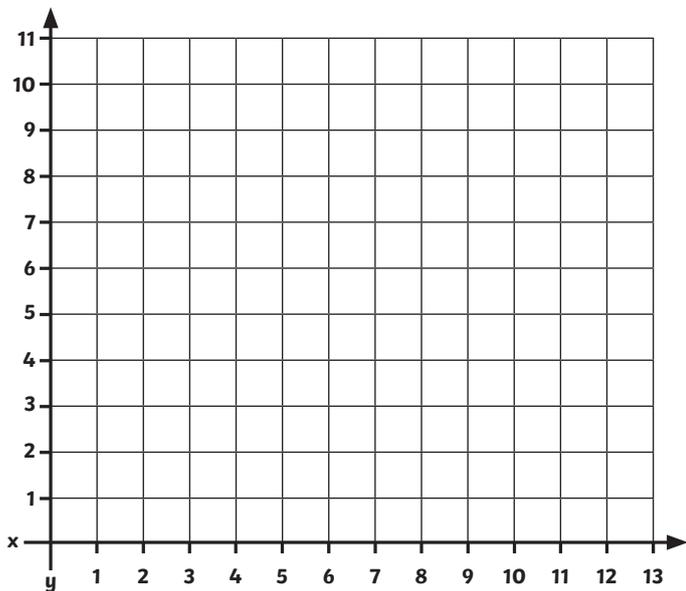
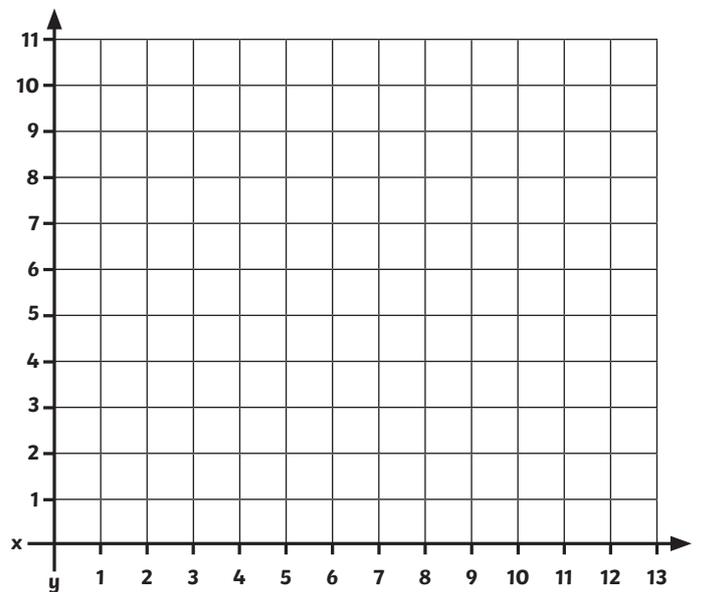
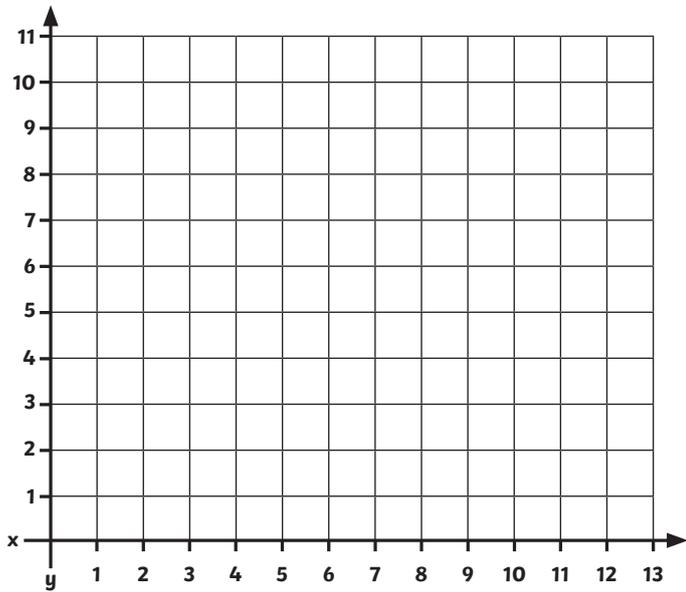
8. Shape A has been translated 6 squares right and 1 square up. Draw the new shape and write the coordinates.



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

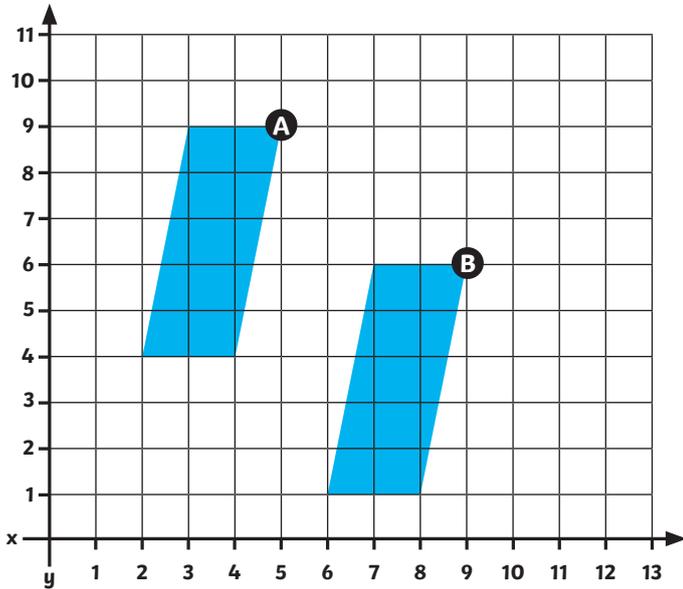
1. The rectangle has been translated 7 squares left and 2 squares down.
B – (2,8) (4,8) (4,1) (2,1)
2. The rectangle has been translated 2 squares right and 6 squares down.
B – (9,1) (9,2) (3,2) (3,1)
3. The right-angled triangle has been translated 7 squares right and 3 squares up.
B – (12,6) (8,11)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

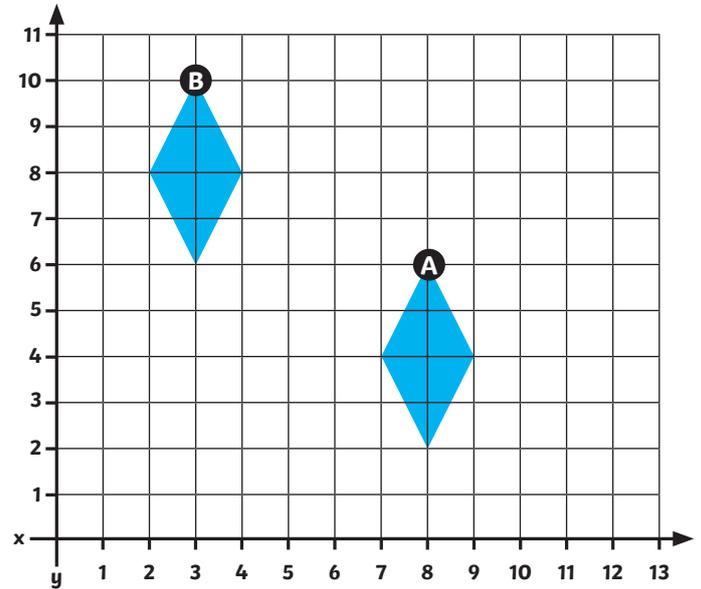
Section A

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.



2.

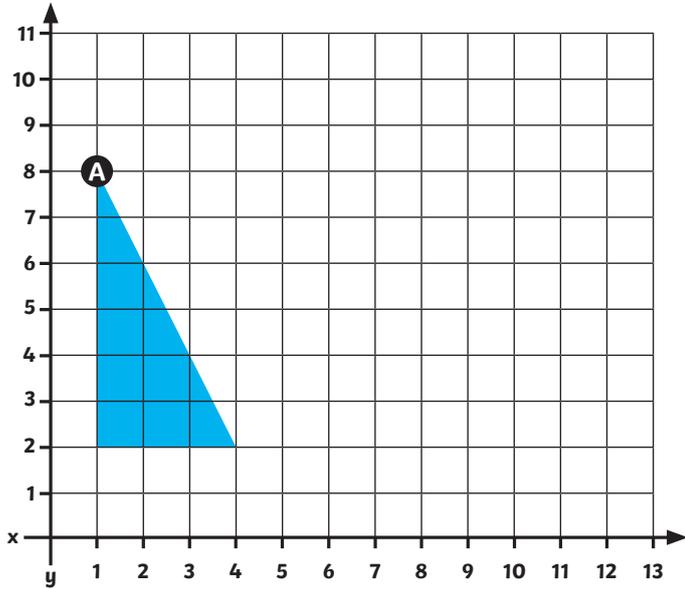


Translation of Shapes

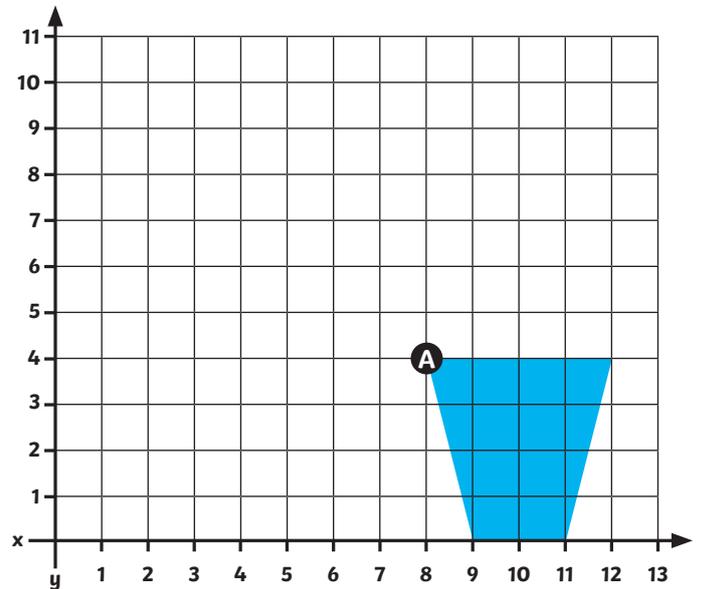
Section B

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

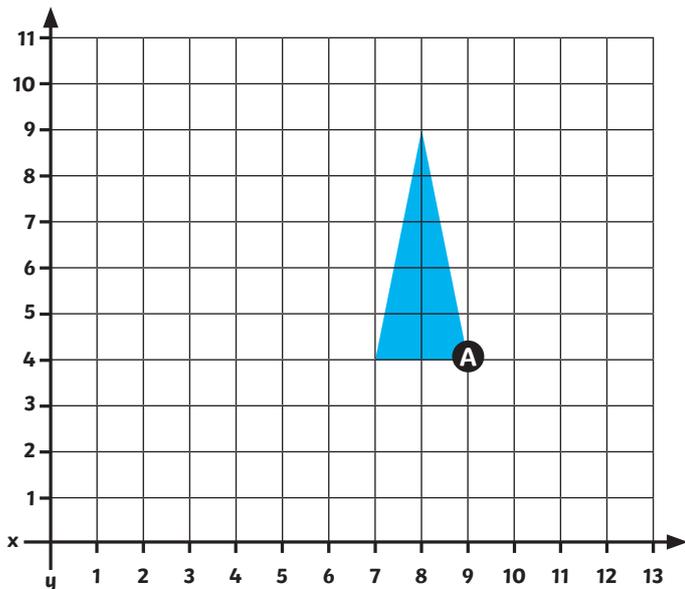
3. Shape A has been translated 5 squares right and 2 squares down.



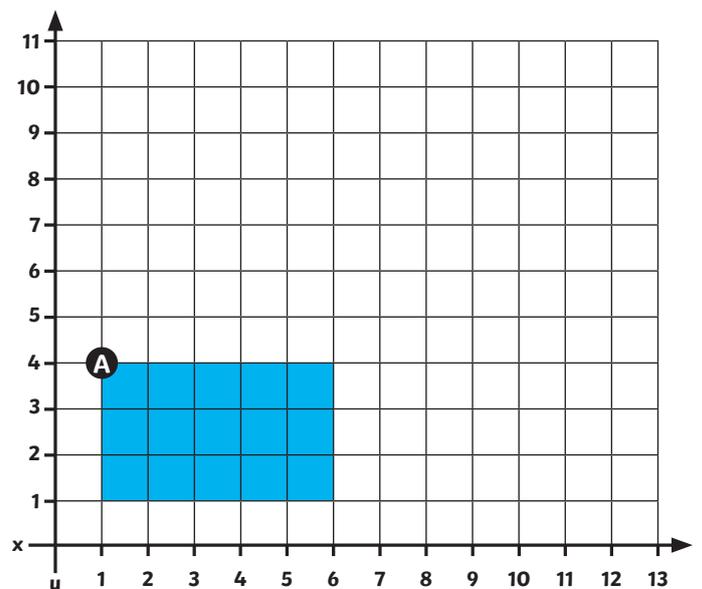
4. Shape A has been translated 3 squares left and 7 squares up.



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



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

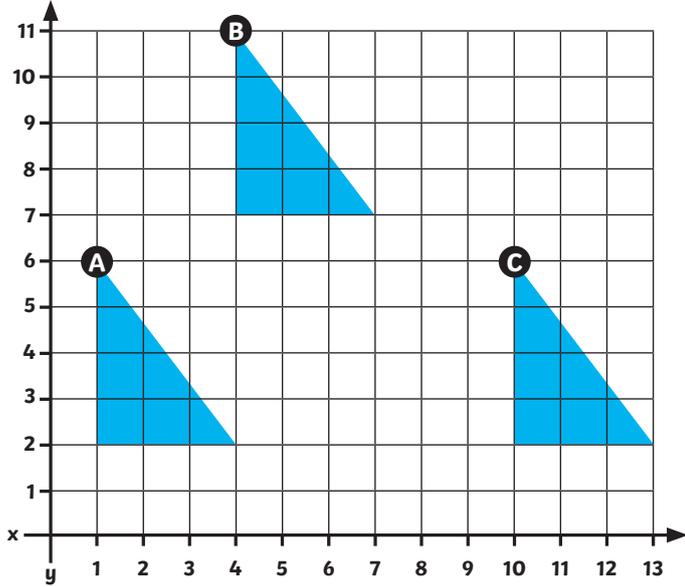


Translation of Shapes

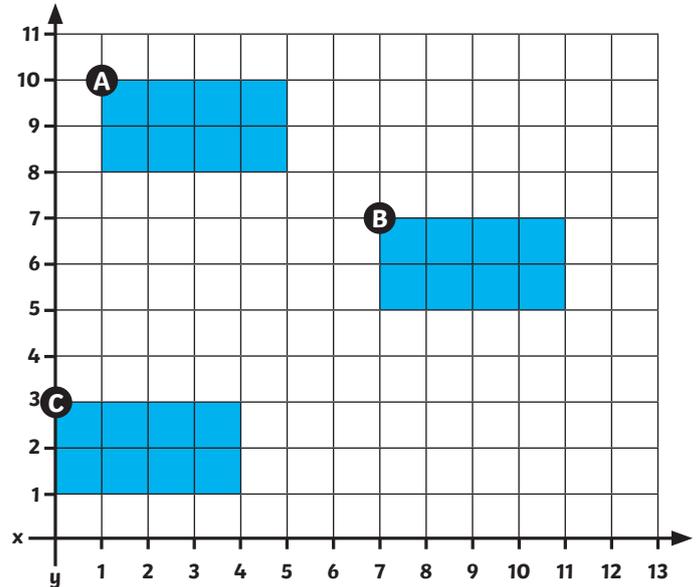
Section C

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

7.

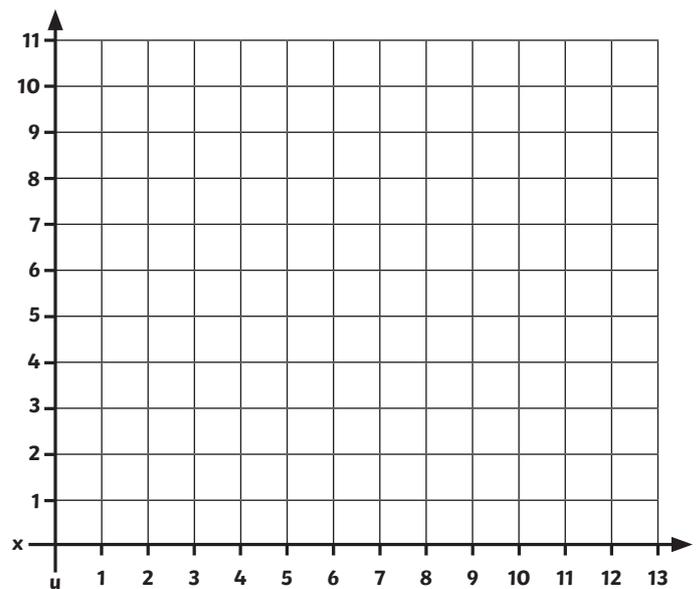
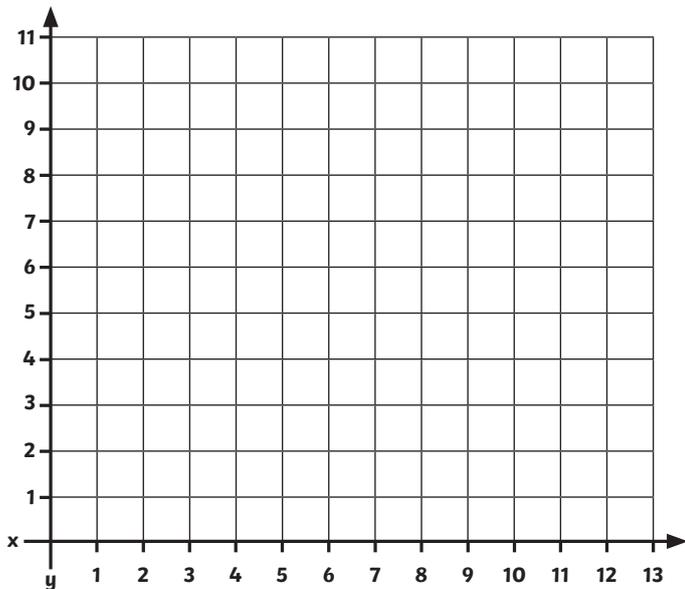


8.

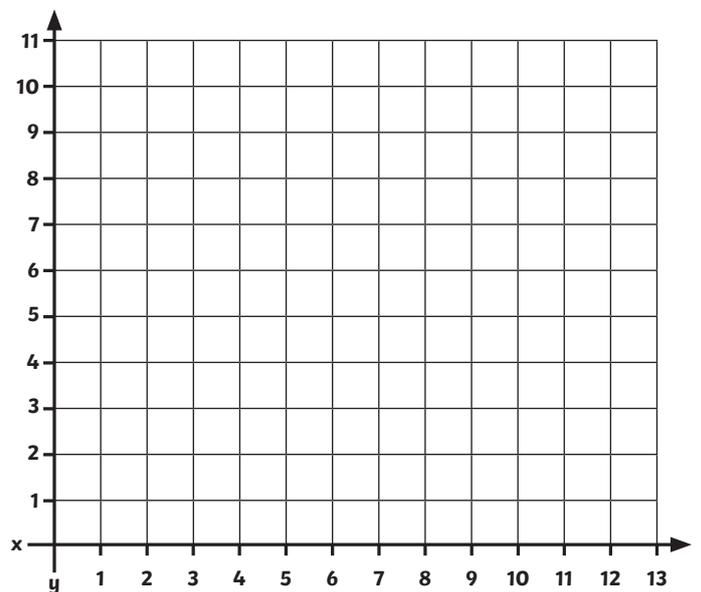
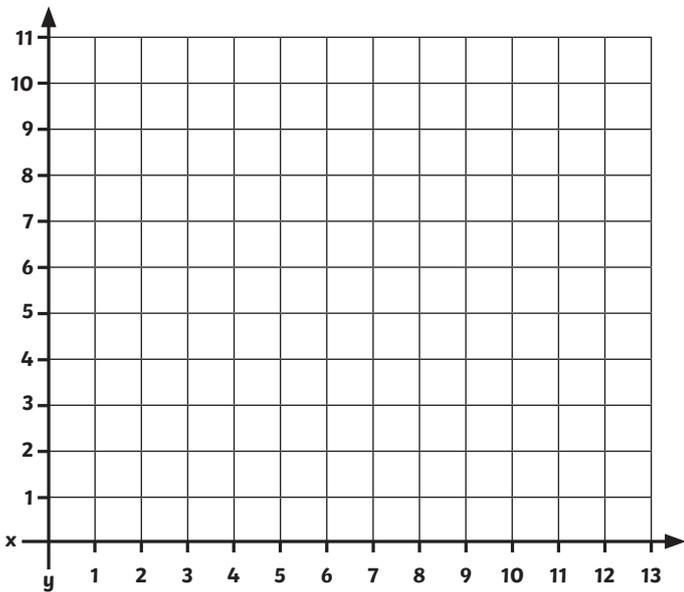
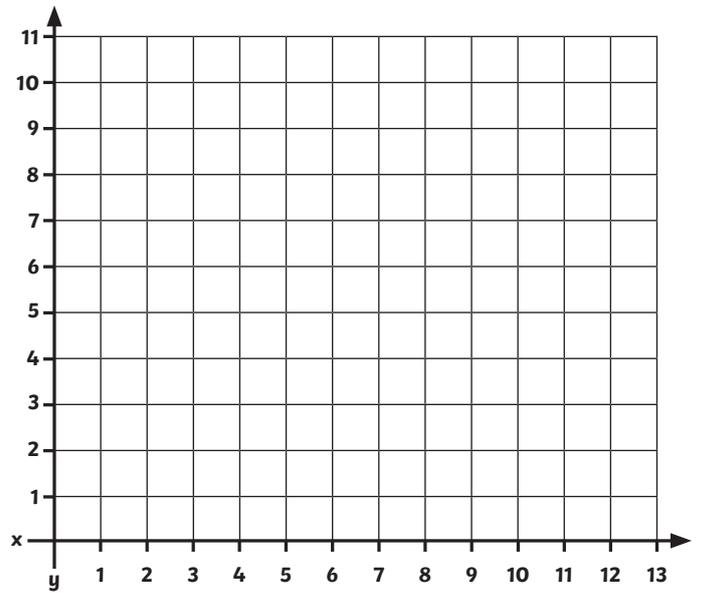
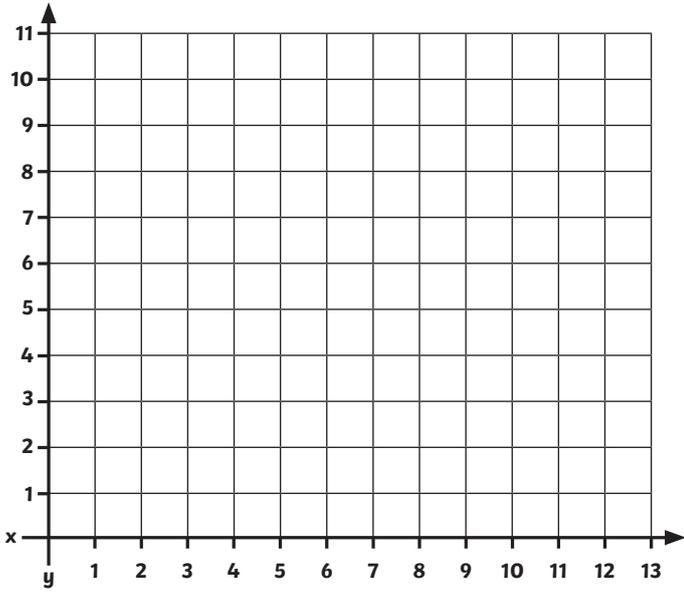


Challenge

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.