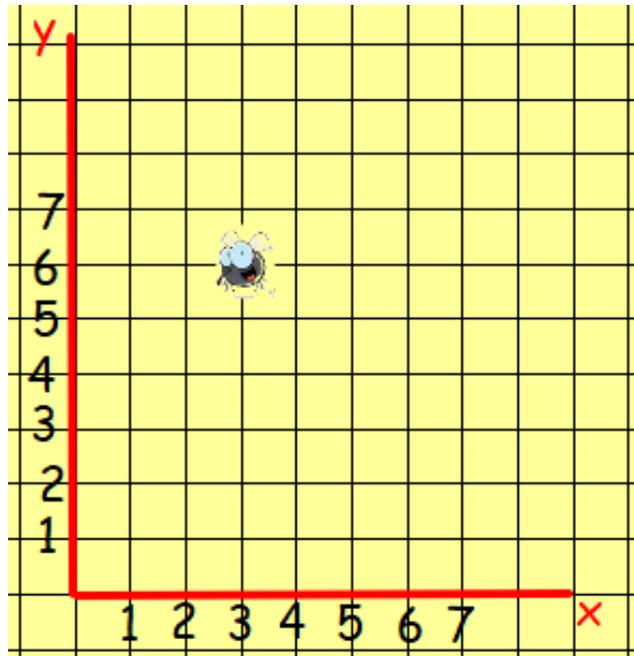


Maths

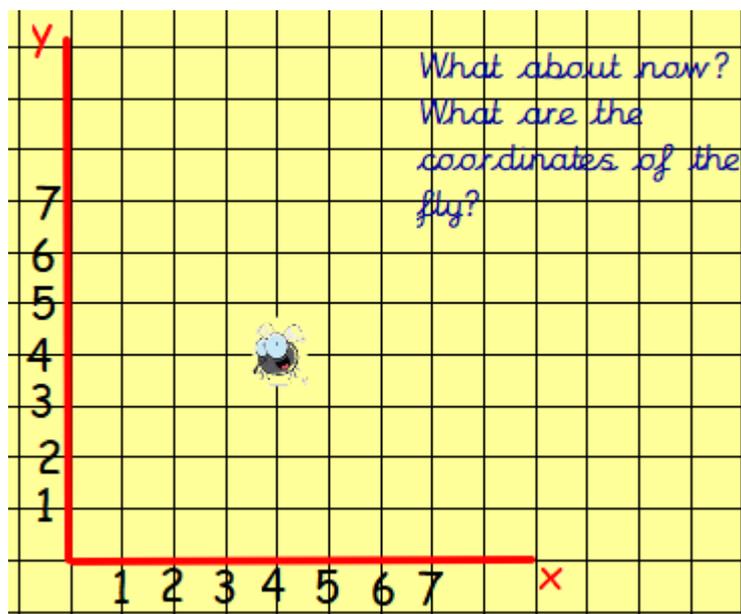
Lesson 1

LO: To describe positions using coordinates.

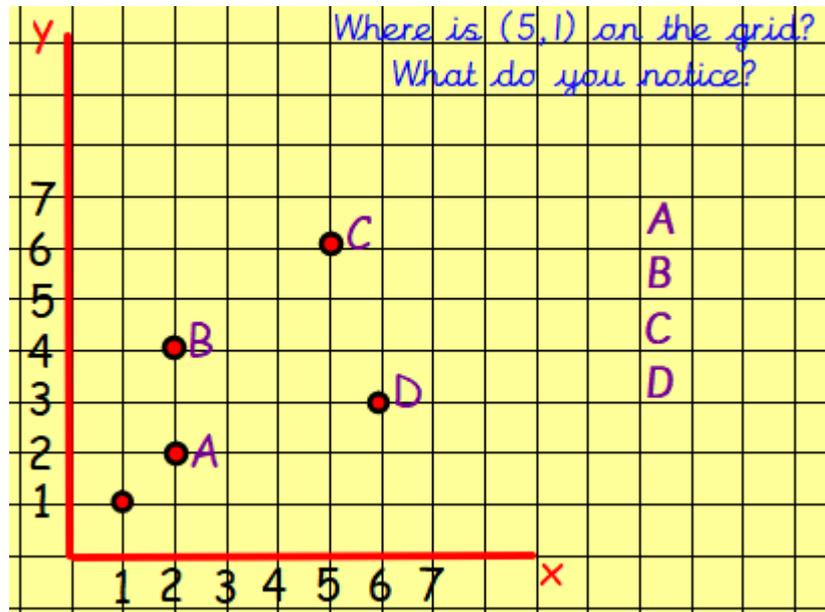


To find the coordinates of the fly you need to go across the X axis and then up the Y axis. So the coordinates for where the fly is are: (3,6).

Always remember along the corridor (X axis) and then up the stairs (Y axis).



Remember to go across and then up.



What are the coordinates for A, B, C and D?

A - (2,2) B - (2,4) C - (5,6) D - (6,3)

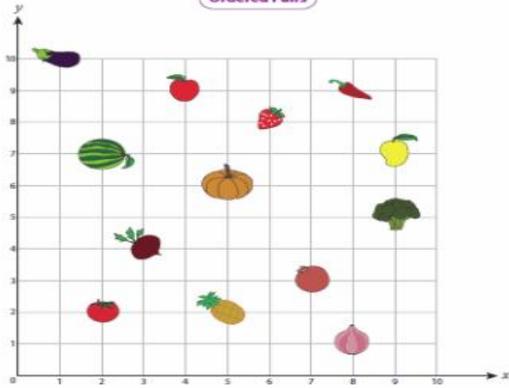
Activity

Find the missing coordinates and shapes.

Lesson 2

LO: To describe positions on a grid using coordinates.

Ordered Pairs



A) Write the ordered pair for each item.

1)  _____

2)  _____

3)  _____

4)  _____

5)  _____

B) Write the item located at each ordered pair.

6) (2, 2) _____

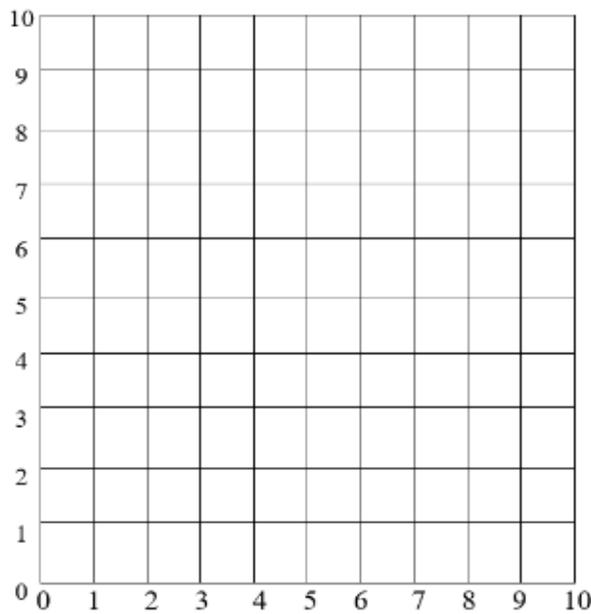
7) (9, 7) _____

8) (2, 7) _____

9) (3, 4) _____

10) (7, 3) _____

Find the coordinates. This sheet is attached in the resources.



When giving coordinates

Plot these coordinates on a grid:

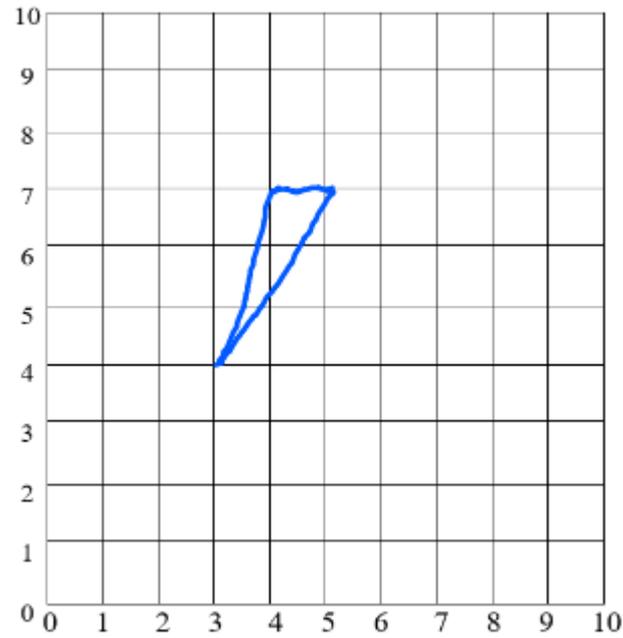
(3, 4)

(5, 7)

(4, 7)

What shapes do you think they make?

Join the coordinates to check.

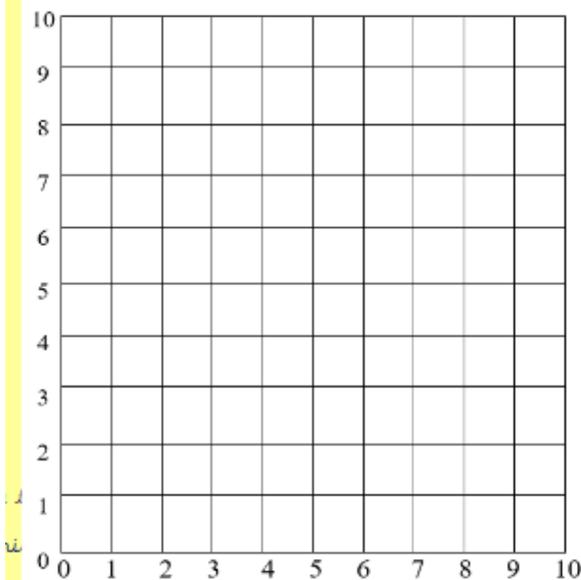


when giving coordinates

The coordinates have created a triangle!

Plot the coordinates below, what shape does it create?

Plot these points on a grid



(5, 8)
(3, 9)
(1, 4)
(6, 0)

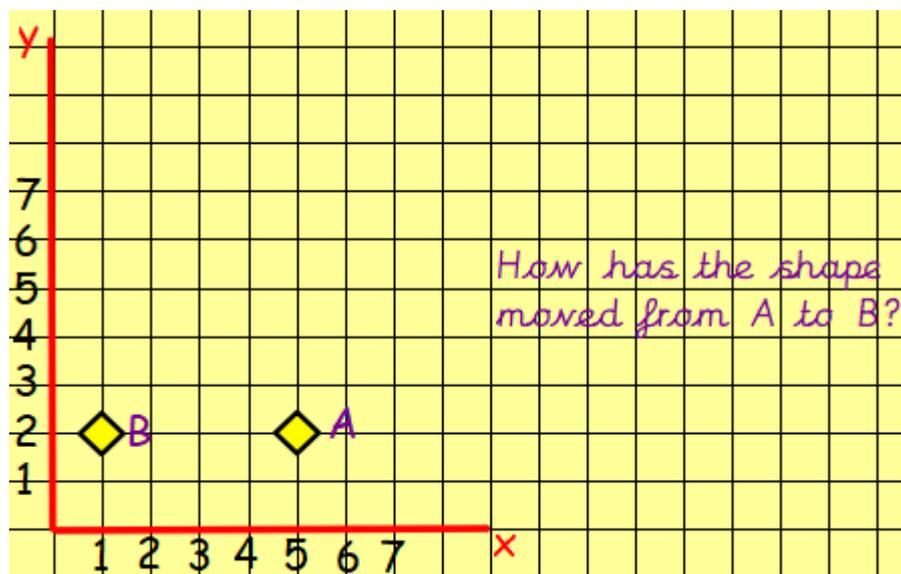
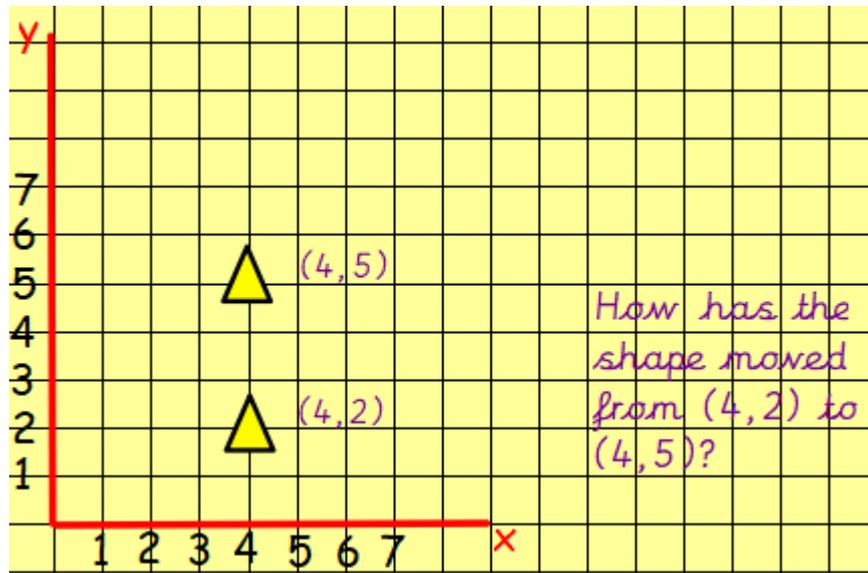
Activity

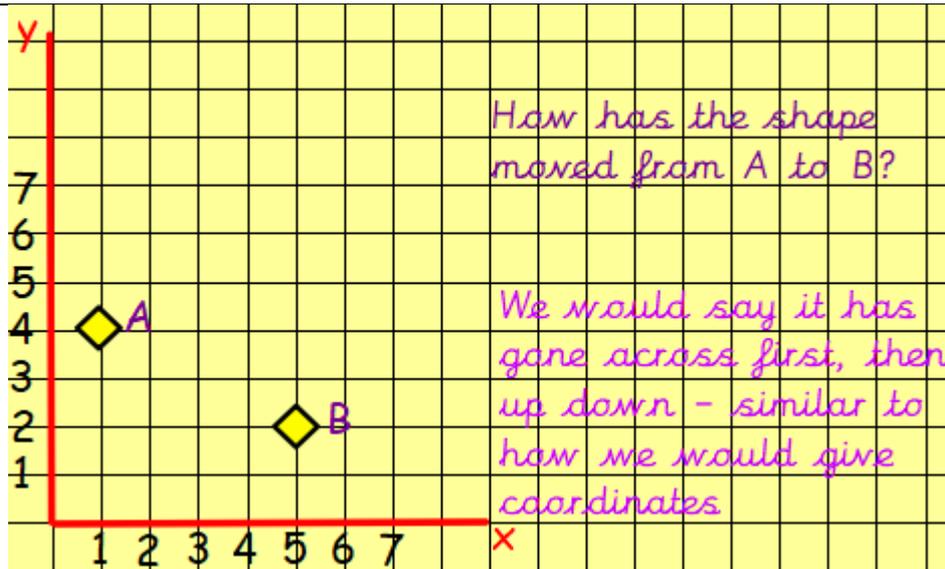
Draw your own grid and plot the coordinates to create a shape.

Lesson 3

LO: To describe movements.

To translate in maths means to move a shape.



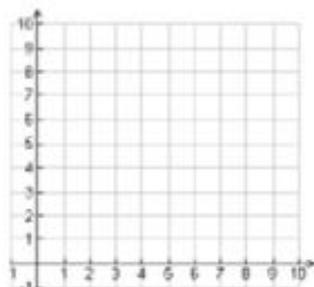


Activity

- The coordinates of point A are (3,2). Point B is 2 square left and 7 squares up from point A.

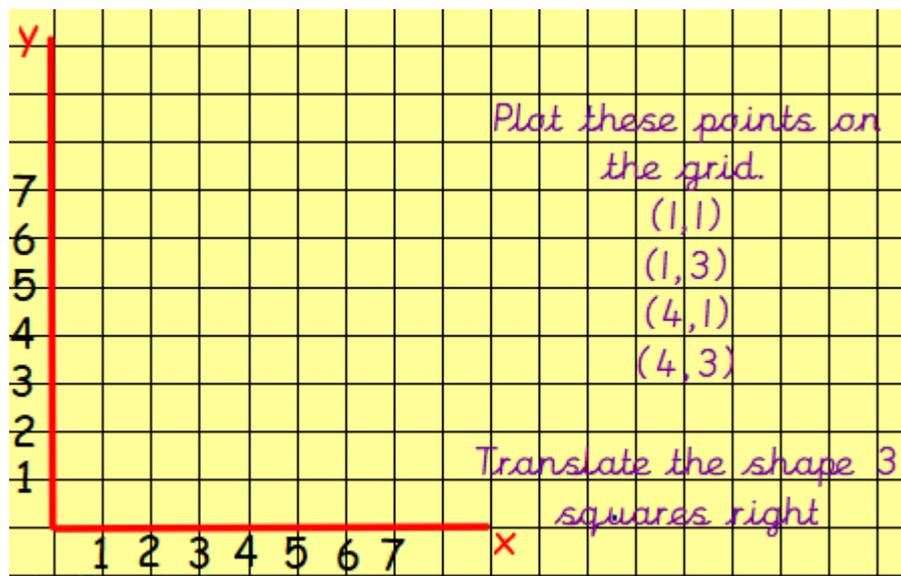
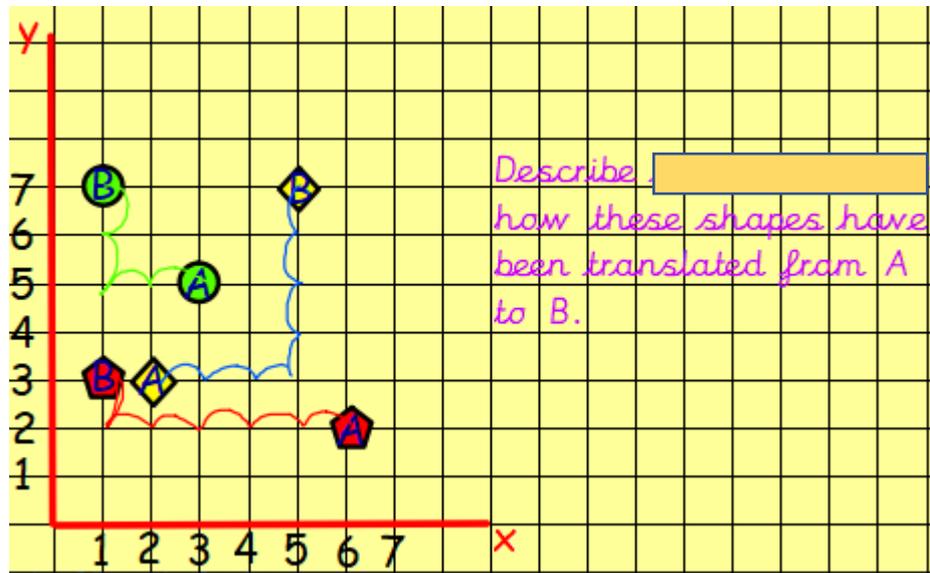
What are the co-ordinates of Point B?

Draw Point A and Point B on the grid.

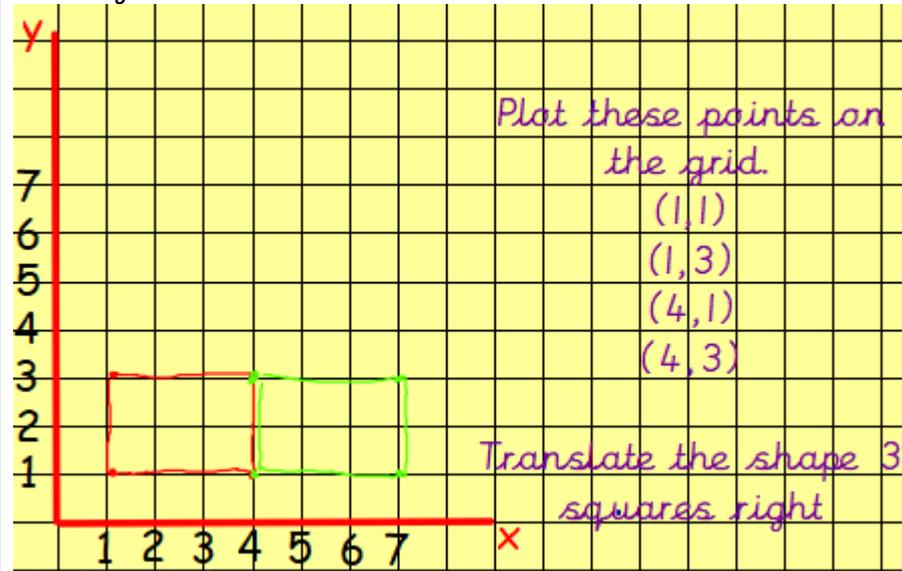


Lesson 4

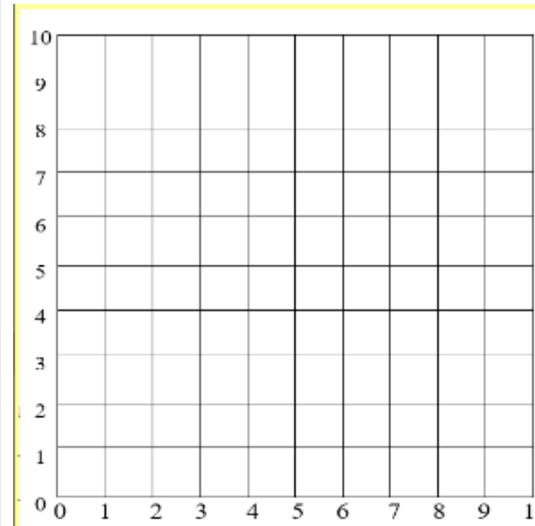
LO: To translate shapes using coordinates.



Below in red is the original shape once the coordinates are plotted and the rectangle in green is when it has been translated (moved) 3 squares to the right.



Activity



Plot these points on a grid.

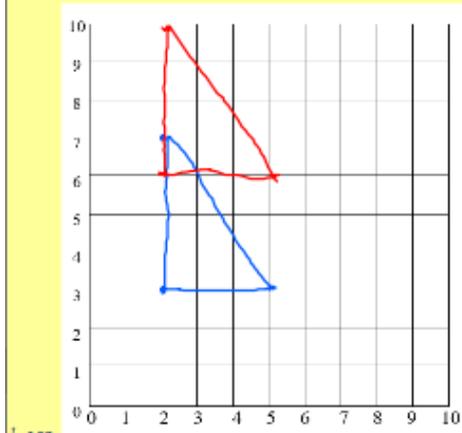
- A (2, 3)
- B (2, 7)
- C (5, 3)

Translate the shape 3 squares up.

What are the new coordinates?

- A
- B
- C

Answers



1 can

- give the coordinates of the points of a shape

Plot these points on a grid.

A (2, 3)

B (2, 7)

C (5, 3)

Translate the shape 3 squares up.

What are the new coordinates?

A 2, 6

B 2, 10

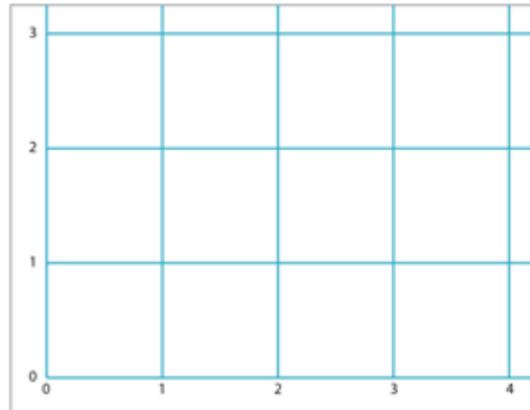
C 5, 6

Lesson 5

LO: To use prior knowledge to solve a coordinate challenge.

<https://nrich.maths.org/5038>

Read the clues to help you plot the letters onto the grid.



Can you position these ten letters in their correct places according to the eight clues below?



Clues:

The letters at (1, 1), (1, 2) and (1, 3) are all symmetrical about a vertical line.

The letter at (4, 2) is not symmetrical in any way.

The letters at (1, 1), (2, 1) and (3, 1) are symmetrical about a horizontal line.

The letters at (0, 2), (2, 0) have rotational symmetry.

The letter at (3, 1) consists of just straight lines.

The letters at (3, 3) and (2, 0) consist of just curved lines.

The letters at (3, 3), (3, 2) and (3, 1) are consecutive in the alphabet.

The letters at (0, 2) and (1, 2) are at the two ends of the alphabet.

You could use this interactivity to try out your ideas.

Week 11 Maths Activities