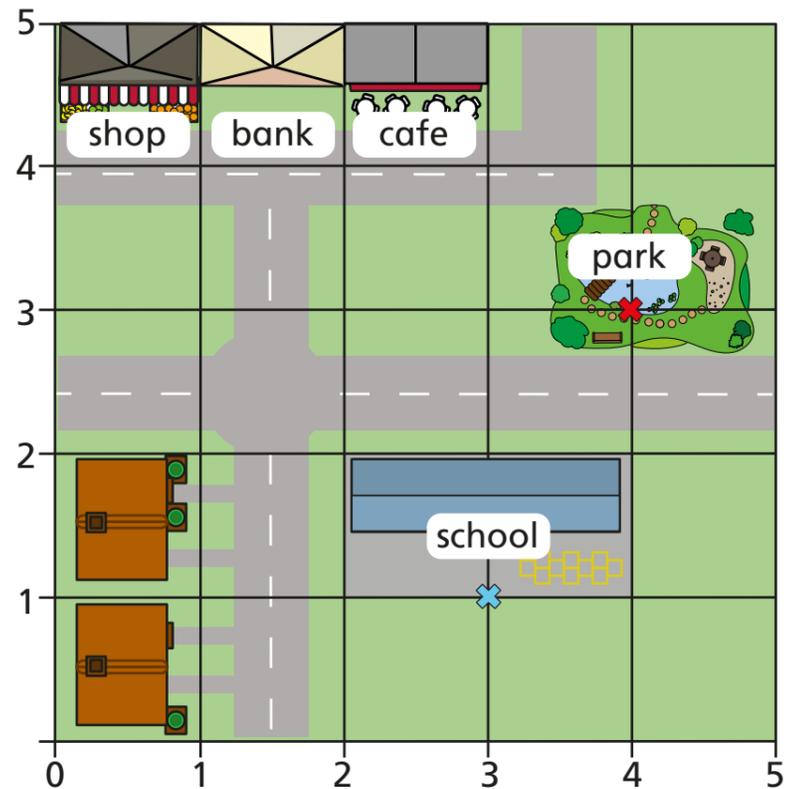


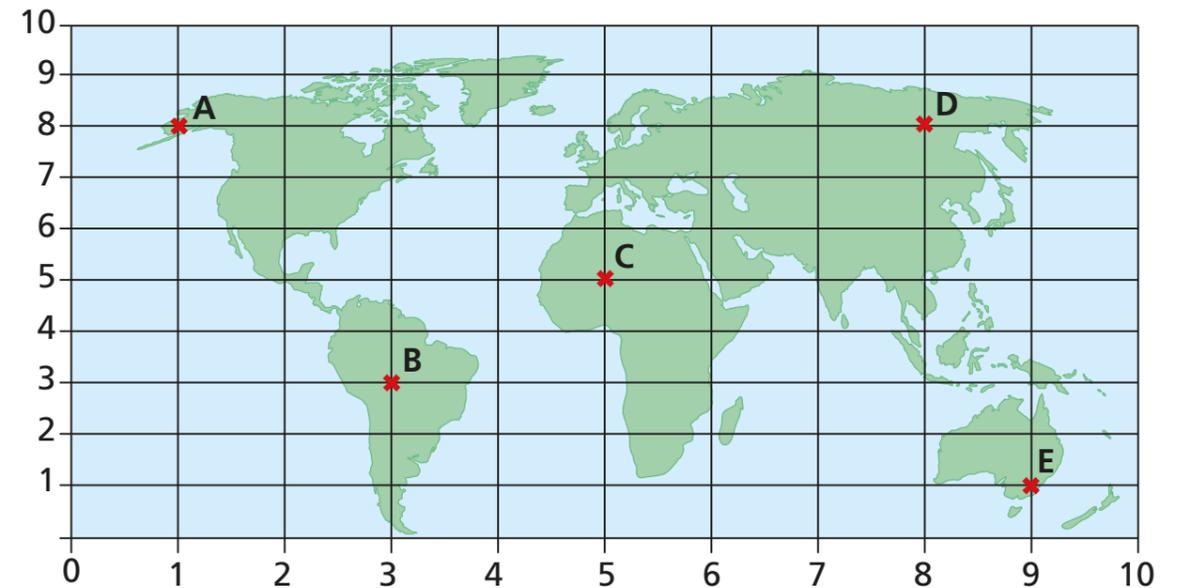
# Describe a movement on a grid

1 Here is a map of part of a town.



- a) Ron is standing at (1, 1).  
He walks to the school gates at point (3, 1).  
Complete the sentence to describe his journey.  
Ron walks  to the right.
- b) Rosie is standing at (4, 0).  
She walks to the slide in the park at point (4, 3).  
Complete the sentence to describe her journey.  
Rosie walks  up.
- c) Annie is at (5, 5) and wants to walk to the slide in the park.  
What route could she take to get there?

2 A map of the world is shown on a grid.

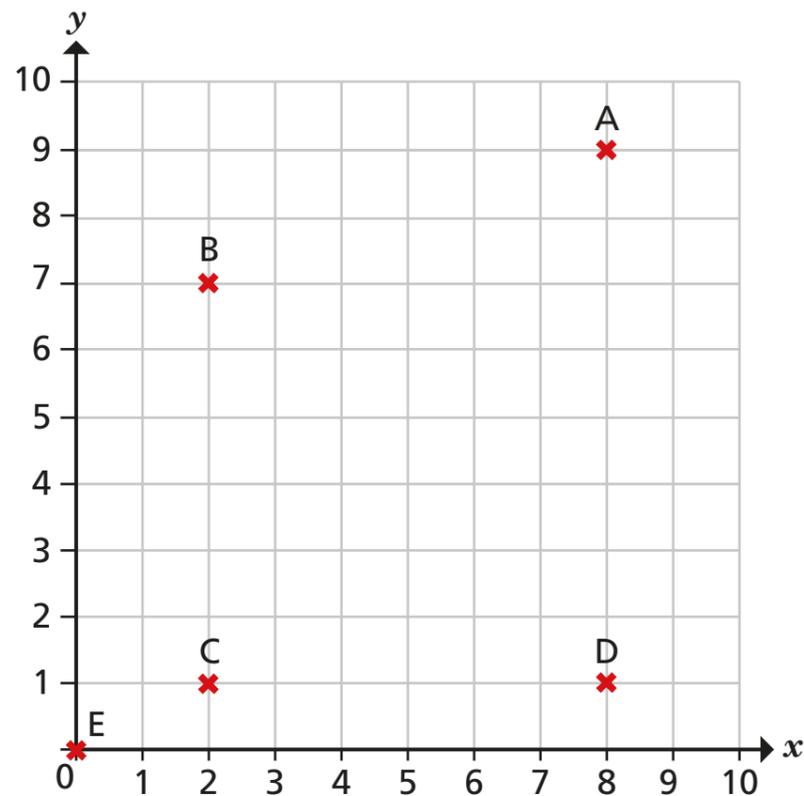


Complete the sentences to describe the movement of planes.

- a) Plane 1 flies from A to D.  
Plane 1 flies  right.
- b) Plane 2 flies from A to B.  
Plane 2 flies  right and  down.
- c) Plane 3 flies from C to D.  
Plane 3 flies  right and  up.
- d) Plane 4 flies from E to D.  
Plane 4 flies  left and  up.



3 Five points are drawn on a grid.



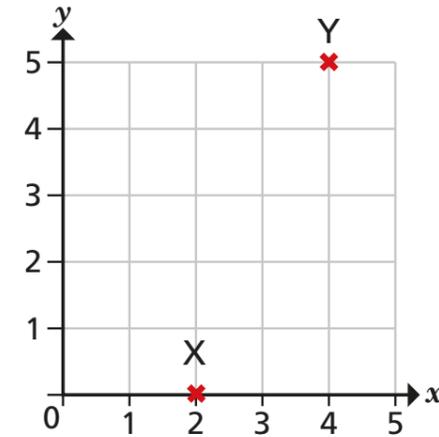
Complete the sentences to describe the translations.

- a) C to D is a translation 6 right.
- b) A to D is a translation 8 down.
- c) E to C is a translation 2 right and 1 up.
- d) C to A is a translation 6 right and 8 up.
- e) A to B is a translation 6 left and 2 down.

How many other translations can you describe from the grid?



4 Two points, X and Y, are shown on the grid.



a) Describe the translation from X to Y.

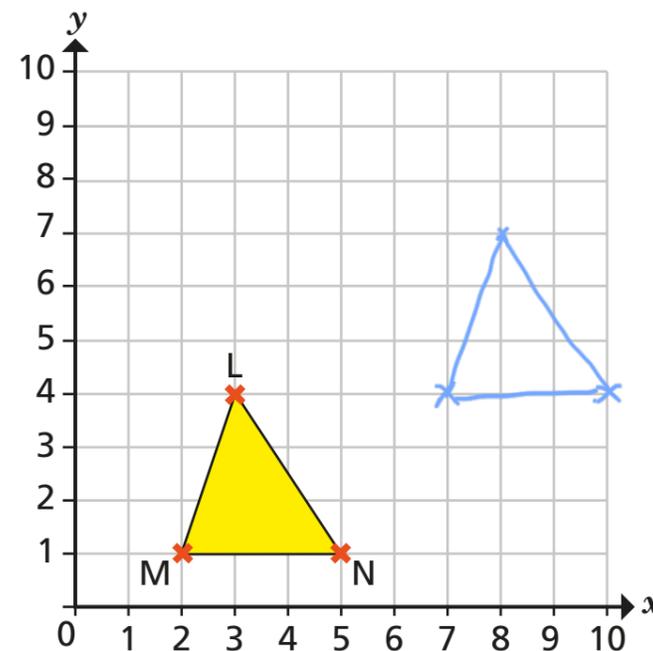
2 right and 5 up.

b) Describe the translation from Y to X.

2 left and 5 down.

What do you notice? Does this always happen?

5 A triangle is drawn on the grid.



It is translated so that the vertex M moves to (7, 4).

a) Describe the translation.

5 right and 3 up

b) Draw the translated triangle on the grid to show its new position. Create your own problem like this for a partner.

