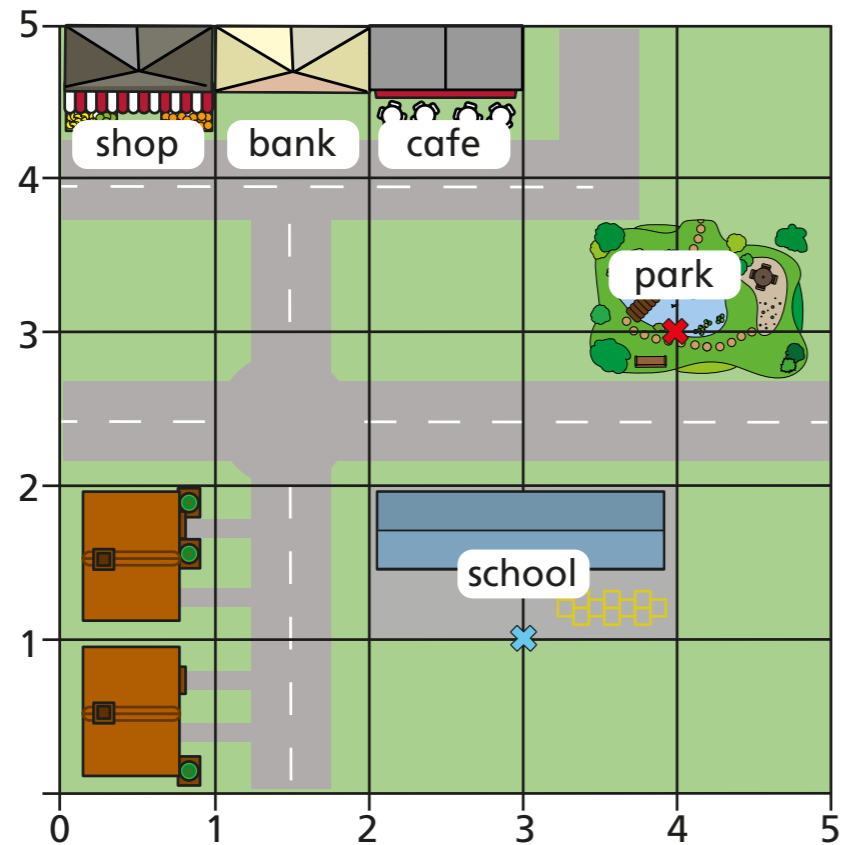# Describe a movement on a grid

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?
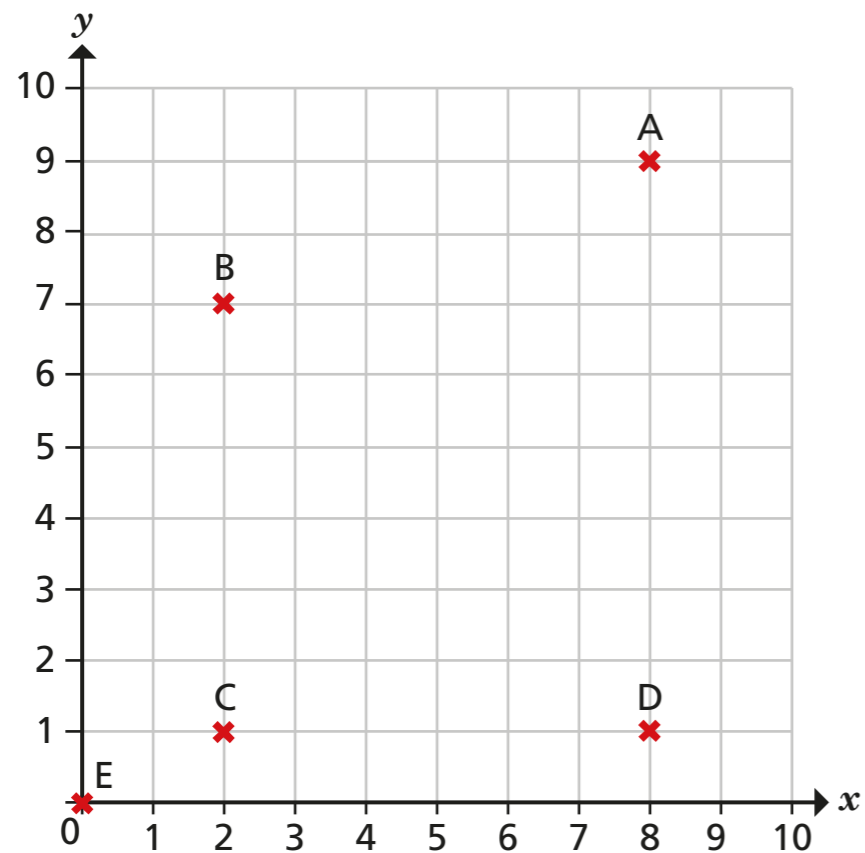
2 A map of the world is shown on a grid.
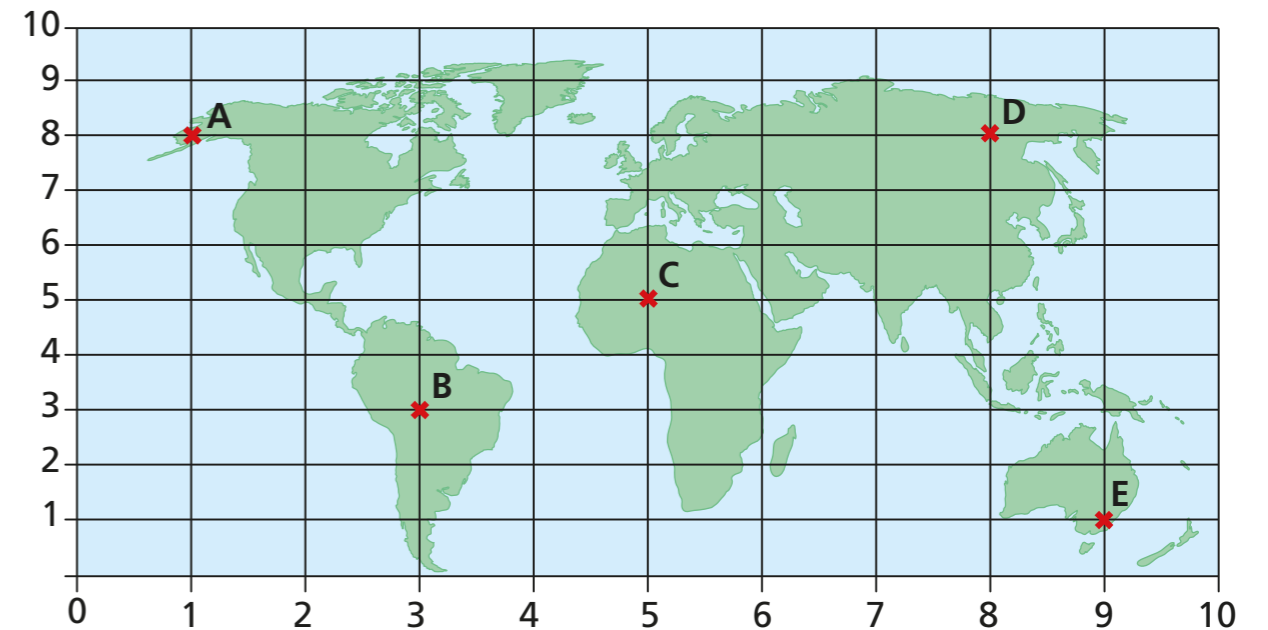
Complete the sentences to describe the movement of planes.

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.
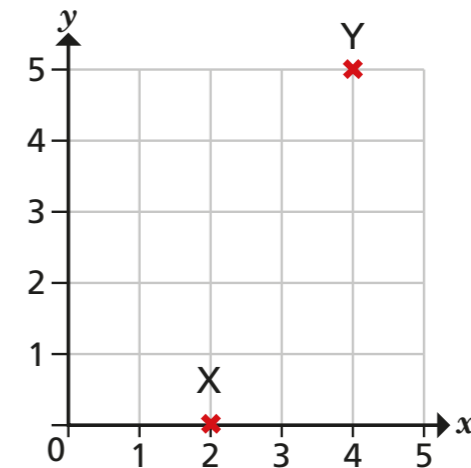
3 Five points are drawn on a grid.

Complete the sentences to describe the translations.

a) C to D is a translation ☐ right.

b) A to D is a translation ☐ down.

c) E to C is a translation ☐ right and ☐ up.

d) C to A is a translation ☐ _____ and ☐ _____

e) A to B is a translation ☐ _____ and ☐ _____

How many other translations can you describe from the grid?
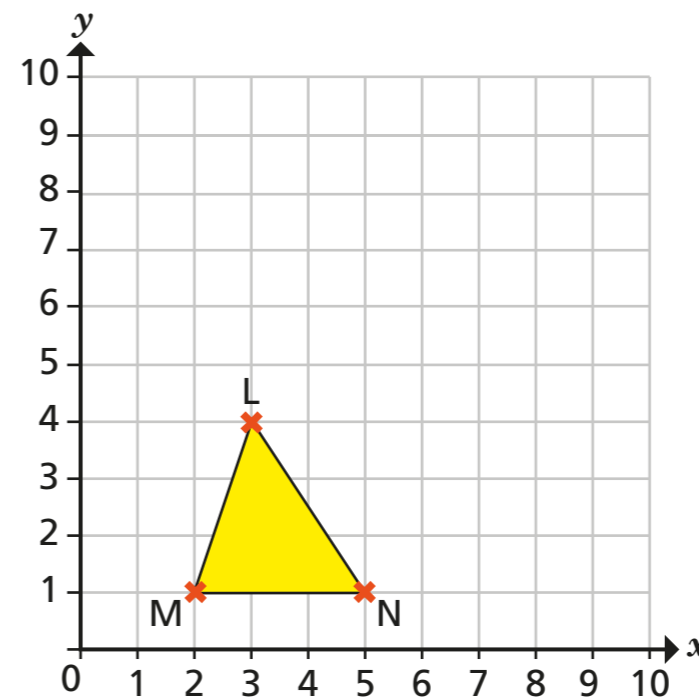
4 Two points, X and Y, are shown on the grid.

a) Describe the translation from X to Y.

_____

b) Describe the translation from Y to X.

_____

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.

_____

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