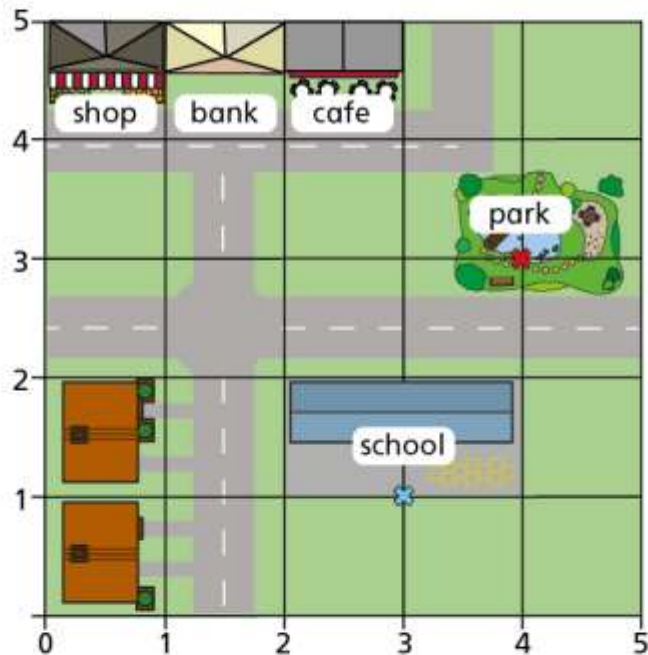


## Describe a movement on a grid

I Here is a map of part of a town.

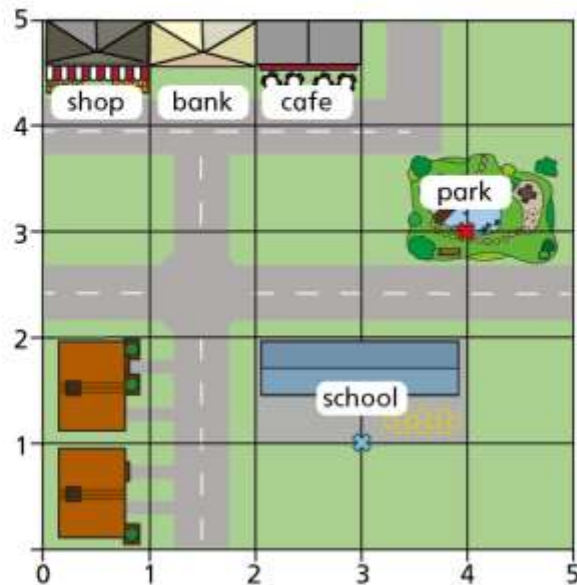


a) Ron is standing at (1, 1).

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.

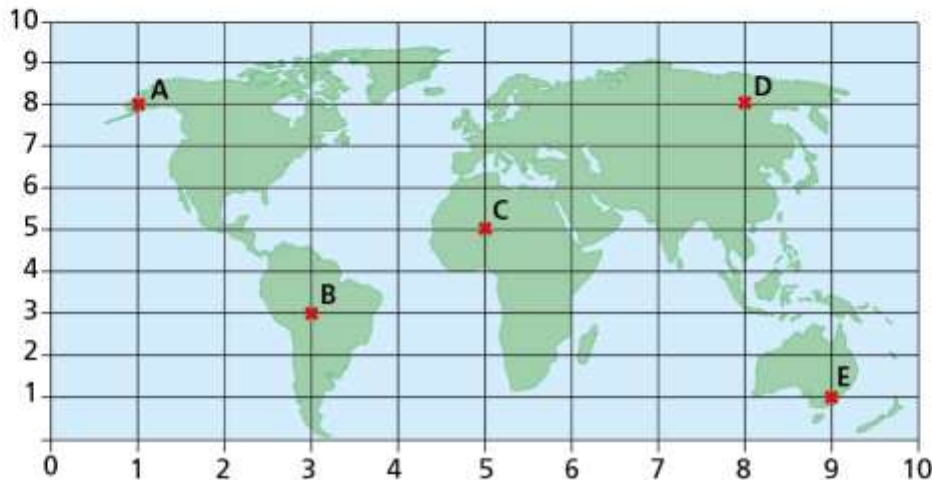
What route could she take to get there?





2

A map of the world is shown on a grid.



Complete the sentences to describe the movement of planes.

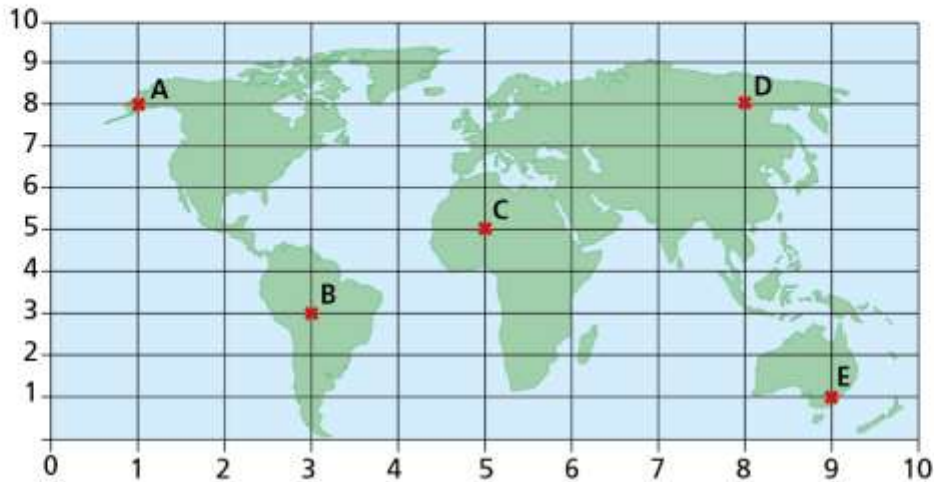
a) Plane 1 flies from A to D.

Plane 1 flies  right.

b) Plane 2 flies from A to B.

Plane 2 flies  right and  down.

2



c) Plane 3 flies from C to D.

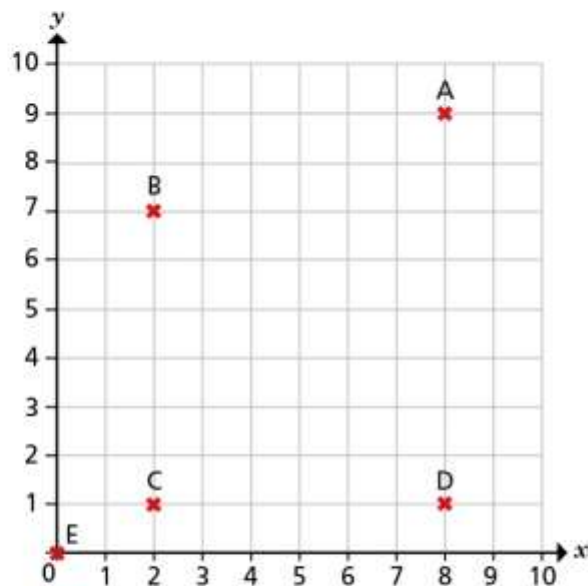
Plane 3 flies  right and  up.

d) Plane 4 flies from E to D.

Plane 4 flies  left and  up.



3 Five points are drawn on a grid.

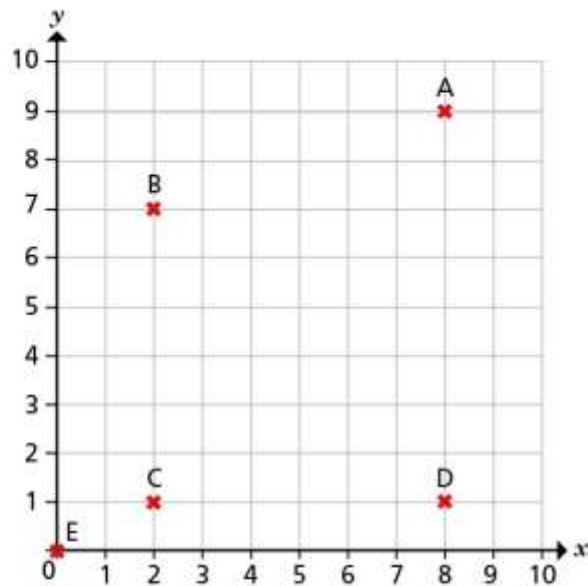


Complete the sentences to describe the translations.

a) C to D is a translation  right.

b) A to D is a translation  down.

3



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  \_\_\_\_\_

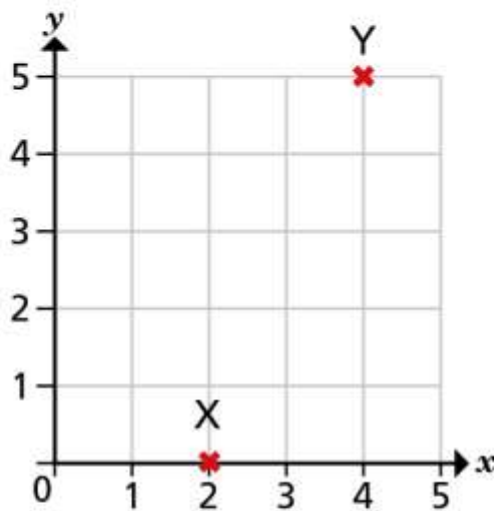
How many other translations can you describe from the grid?





4

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



a) Describe the translation from X to Y.

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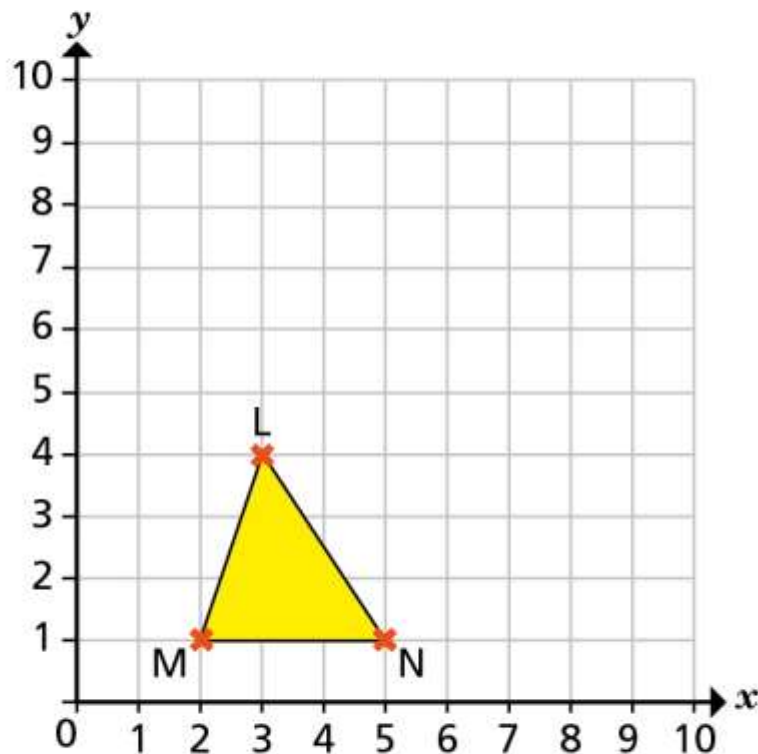
b) Describe the translation from Y to X.

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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.