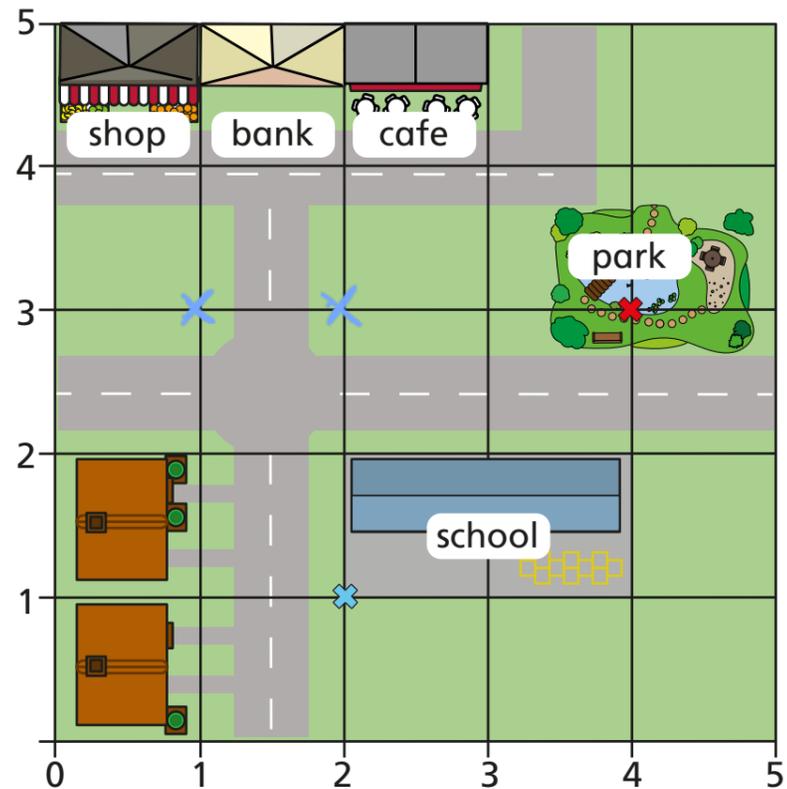


Move on a grid

1 Here is a map of part of a town.



a) Annie is at the park at the coordinate (4, 3).

She moves 3 squares to the left.

Draw on the grid to show where Annie is now.

What are the coordinates of this point? (1 , 3)

b) Mo is at school at the coordinate (2, 1).

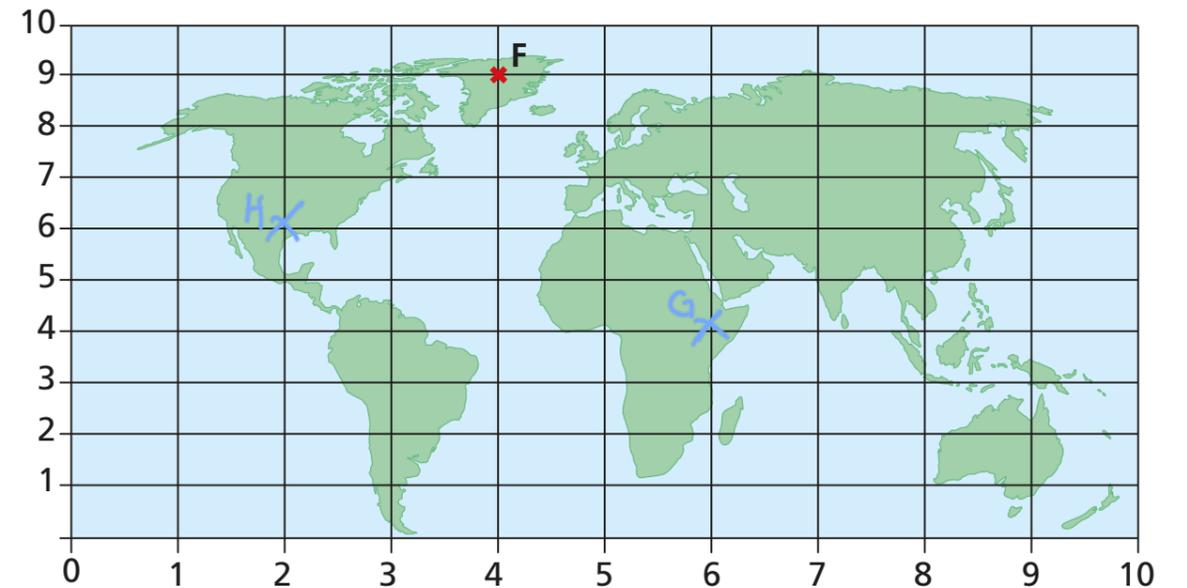
He walks 2 squares up.

Draw on the grid to show where Mo is now.

What are the coordinates of this point? (2 , 3)



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



a) A plane is at point F.

What are the coordinates of this point? (4 , 9)

b) The plane takes off from point F and travels 2 right and 5 down.

Mark its new position on the grid and label this as point G.

What are the coordinates of point G? (6 , 4)

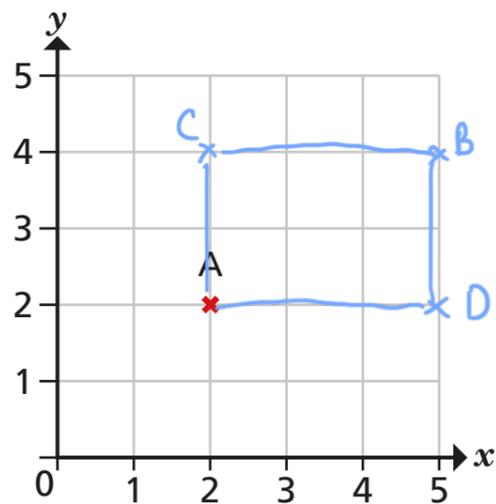
c) The plane now takes off from point G and travels 4 left and 2 up.

Mark its new position and label this point H.

What are the coordinates of point H? (2 , 6)



3 Point A is marked on the grid.



a) What are the coordinates of point A? $(2, 2)$

b) Translate point A 3 to the right and 2 up.
Label this point B and write its coordinates. $(5, 4)$

c) Translate point B 3 to the left.
Label this point C and write its coordinates. $(2, 4)$

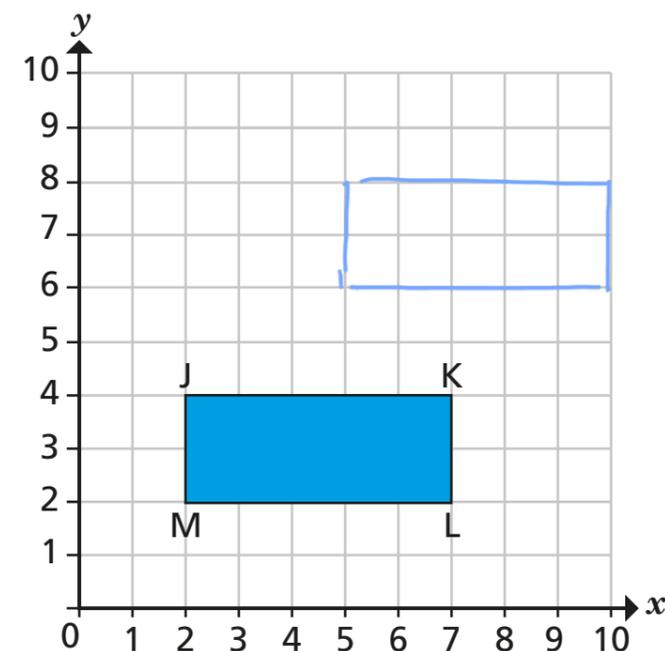
d) Translate point C 3 to the right and 2 down.
Label this point D and write its coordinates. $(5, 2)$

e) Join the points.
What shape have you made? rectangle

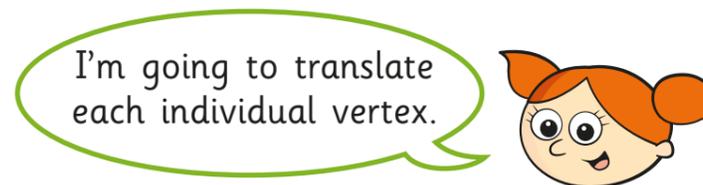
Create your own problem like this for a partner.



4 A rectangle is drawn on the grid.



a) Alex wants to translate the rectangle 3 to the right and 4 up.



Will Alex's method work? yes

Talk about it with a partner.

b) Translate the rectangle 3 to the right and 4 up.
Complete the table to show the coordinates of each vertex before and after the translation.

Vertex	Before	After
J	$(2, 4)$	$(5, 8)$
K	$(7, 4)$	$(10, 8)$
L	$(7, 2)$	$(10, 6)$
M	$(2, 2)$	$(5, 6)$

