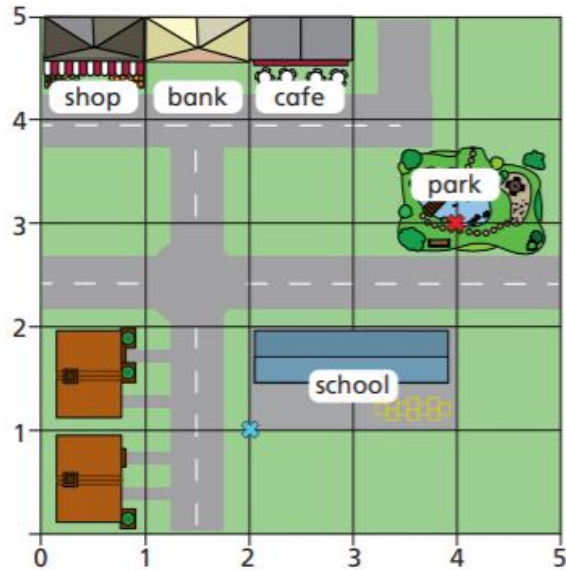


**Mild**

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? (  ,  )

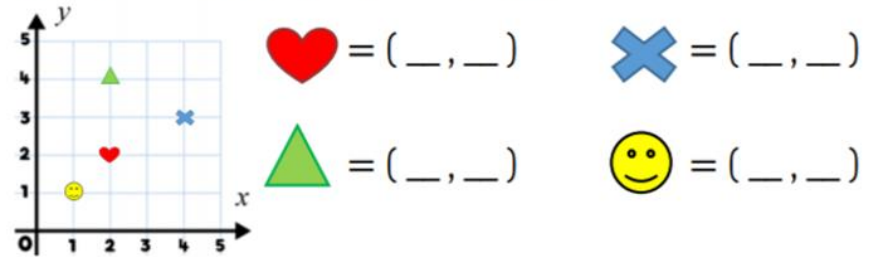
b) Mo is at school at the coordinate (2, 1).

He walks 2 squares up.

Draw on the grid to show where Mo is now.

What are the coordinates of this point? (  ,  )

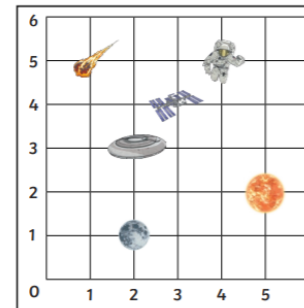
Write the co-ordinates for each shape:















Complete the following movements and write the new coordinates

1. Move the heart right 2
2. Move the triangle down 3
3. Move the smiley face up 4
4. Move the cross left 3

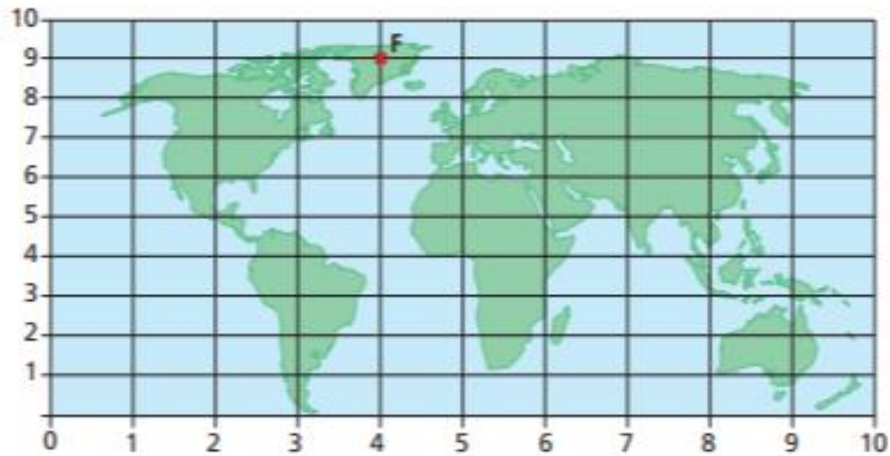
**RHC**



1) Describe the following translations:

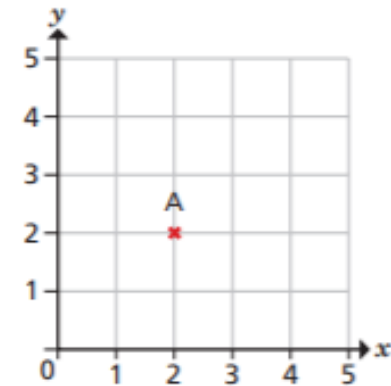
a)  to 	b)  to 	c)  to 
_____	_____	_____
d)  to 	e)  to 	f)  to 
_____	_____	_____

**Hot**



- a) A plane is at point F.  
What are the coordinates of this point? (  ,  )
- 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? (  ,  )
- 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? (  ,  )

Point A is marked on the grid.



- a) What are the coordinates of point A? (  ,  )
- b) Translate point A 3 to the right and 2 up.  
Label this point B and write its coordinates. (  ,  )
- c) Translate point B 3 to the left.  
Label this point C and write its coordinates. (  ,  )
- d) Translate point C 3 to the right and 2 down.  
Label this point D and write its coordinates. (  ,  )
- e) Join the points.  
What shape have you made? \_\_\_\_\_



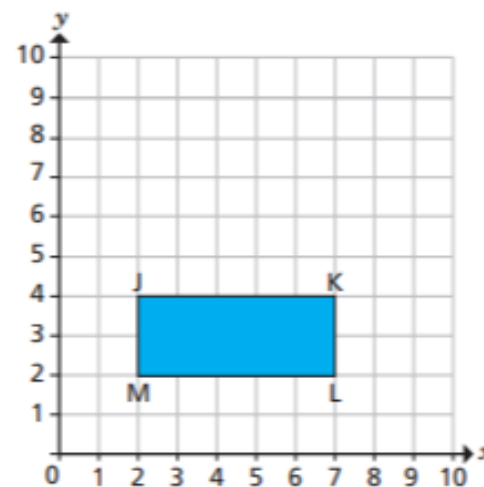
- 1 Shape a moves three squares to the right. Write the new coordinates.
- 2 Shape b moves two squares down. Write the new coordinates.
- 3 Shape c moves nine squares to the left. Write the new coordinates.
- 4 Shape d moves four squares to the left and two squares down. Write the new coordinates.
- 5 Shape e moves three squares to the left and one square up. Write the new coordinates.



**THINK**

Find a route to slide triangle a to the position of triangle f. It can only move left, right, up and down. Then describe a different route.

A rectangle is drawn on the grid.



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

I'm going to translate each individual vertex.



Will Alex's method work? \_\_\_\_\_

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		
K		
L		
M		