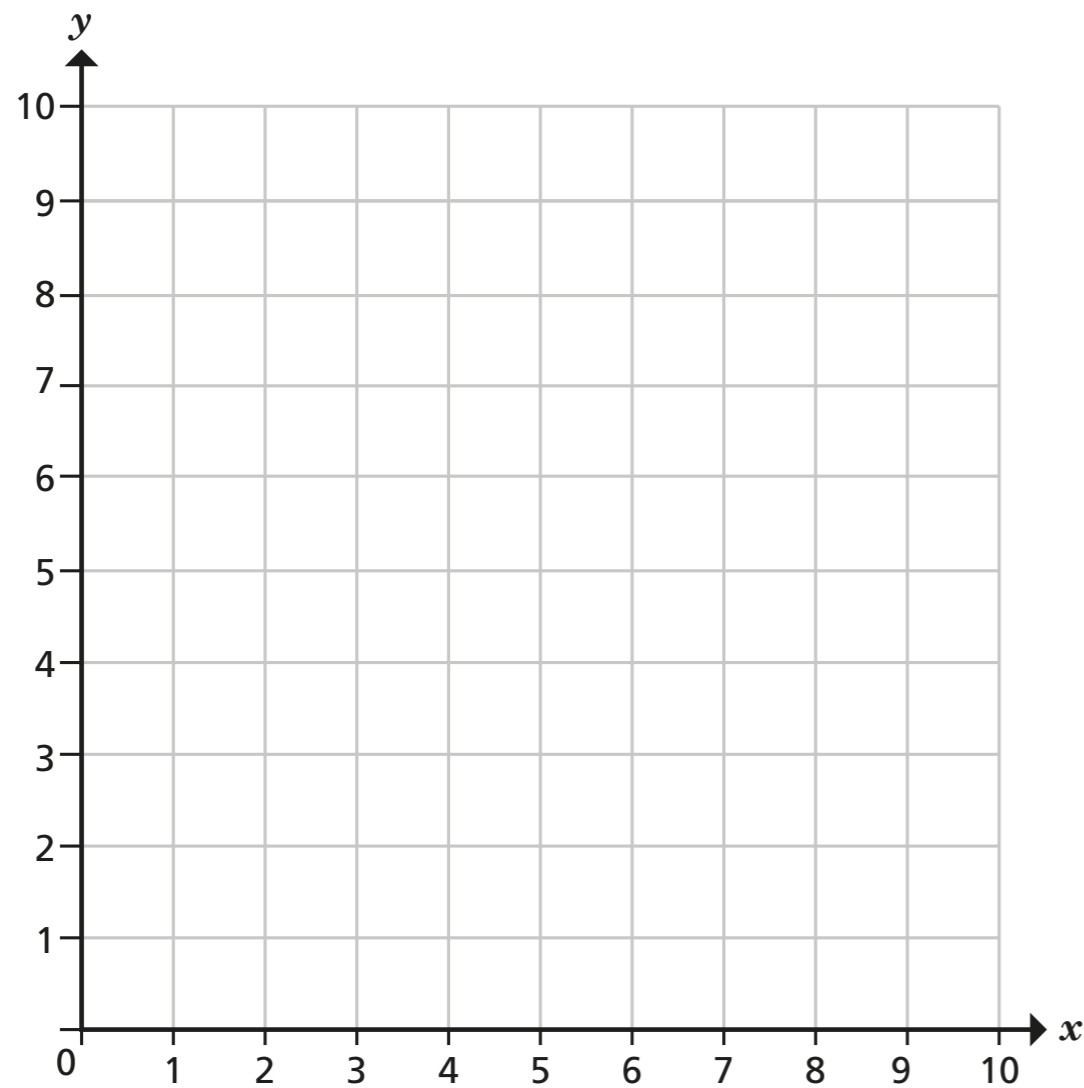


# Draw on a grid

1 The cards show the coordinates of six points.

A (4, 4)	B (2, 3)	C (6, 4)
D (10, 8)	E (0, 5)	F (9, 0)

Plot and label the points on the grid.



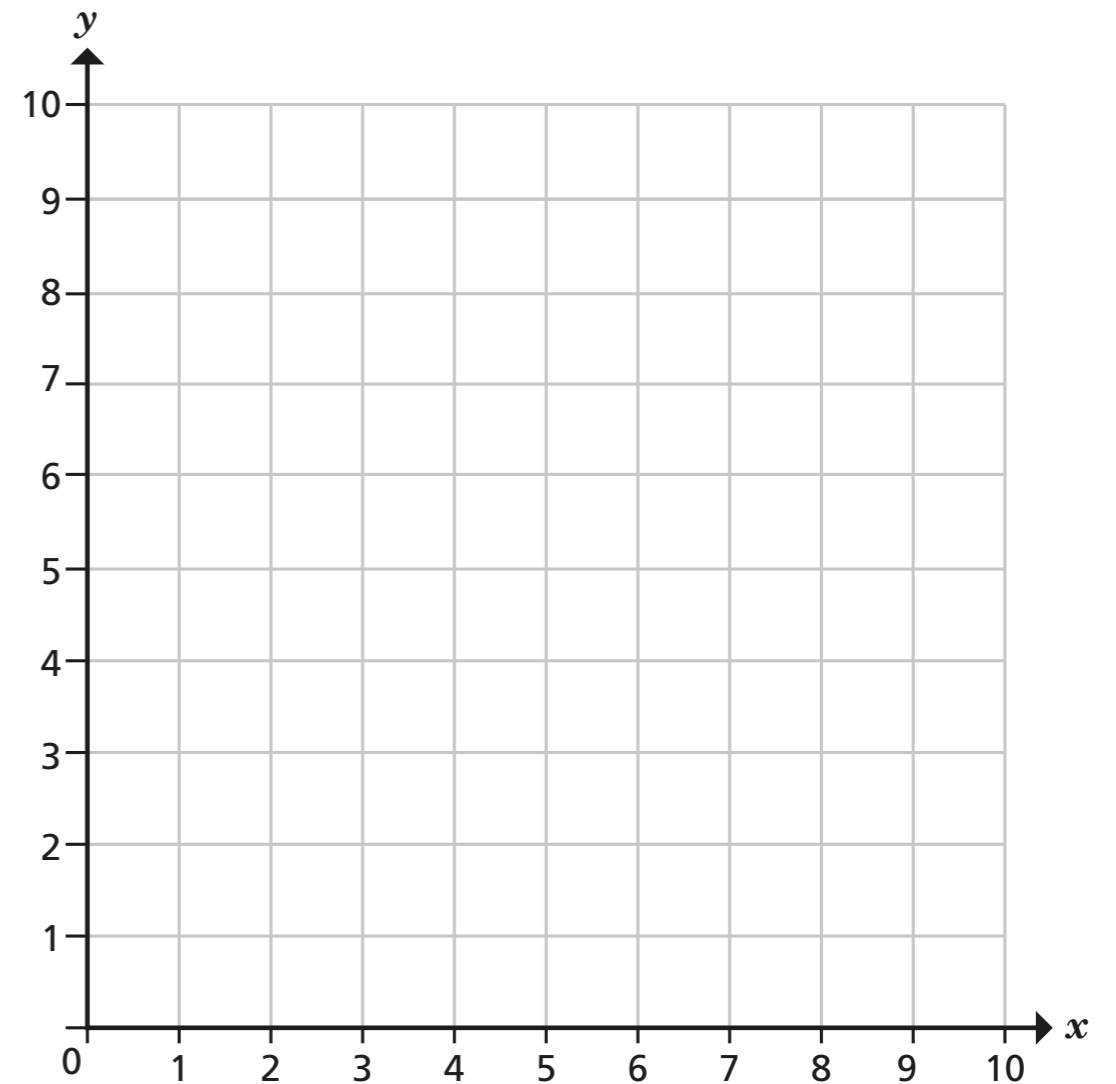
Compare answers with a partner.



2 Here are the coordinates of three points.

X (1, 3)	Y (2, 5)	Z (3, 7)
----------	----------	----------

a) Plot and label the points on the grid.



b) Join up the points.

What do you notice?

c) Write the coordinates of two other points that fit this pattern.

(  ,  ) and (  ,  )

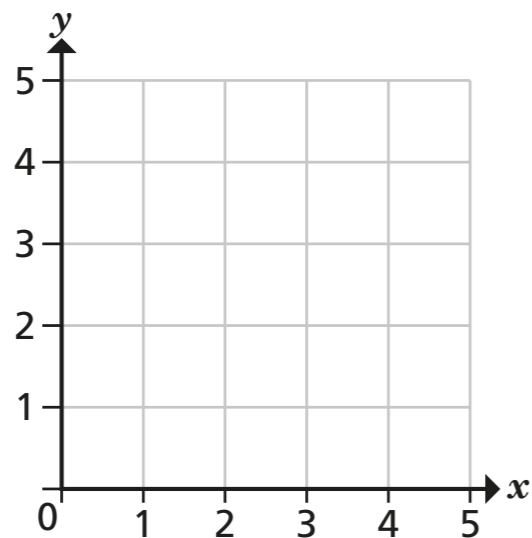
Compare answers with a partner.



3 Here are the coordinates of the vertices of a rectangle.

- (1, 1) (5, 1) (1, 3) (5, 3)

Draw the rectangle on the grid.



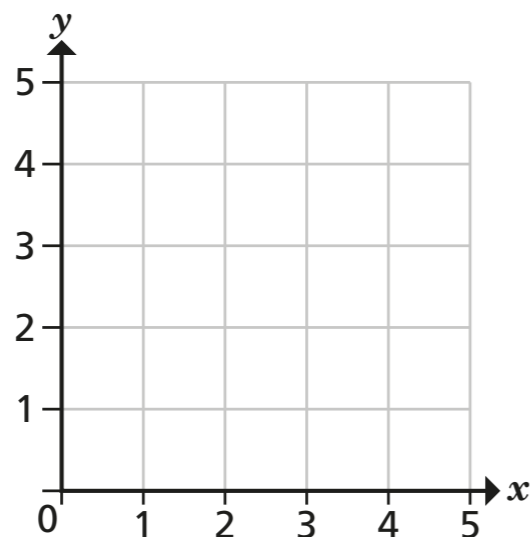
4 Two squares are drawn on a grid.

Here are the coordinates of the vertices of each square.

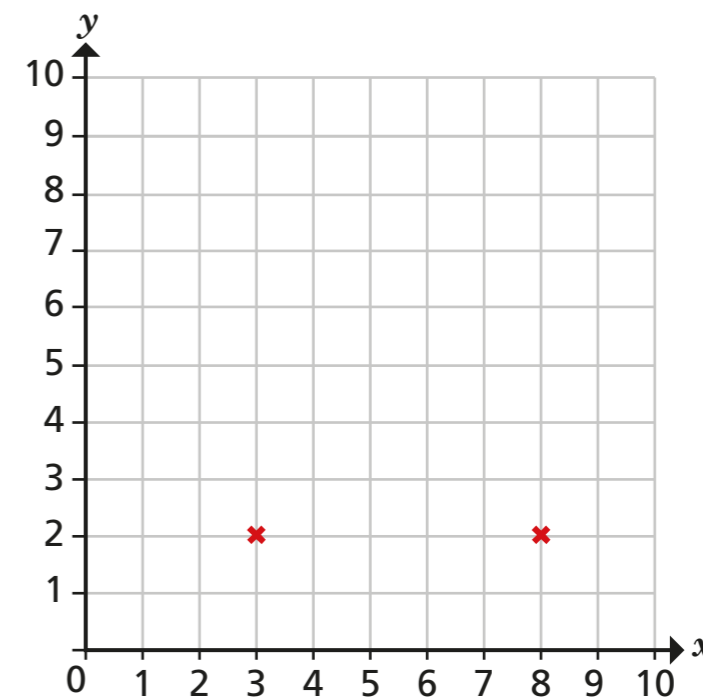
Square A (1, 1) (1, 3) (3, 3) (3, 1)

Square B (2, 2) (2, 4) (4, 4) (4, 2)

- a) Do you think the squares will overlap? \_\_\_\_\_  
 b) Draw on the grid to check your answer.



5 Two vertices of a triangle are shown on the grid.



- a) What are the coordinates of the two vertices shown?  
 (  ,  ) and (  ,  )
- b) Give a possible coordinate for the third vertex, if the triangle is right-angled.  
 (  ,  )
- c) Give a possible coordinate for the third vertex, if the triangle is isosceles.  
 (  ,  )

Compare answers with a partner.

6 The coordinates of one vertex of a square are (10, 10).  
 Give possible coordinates for the other three vertices.

- (  ,  ) (  ,  ) (  ,  )

How many different answers can you find?

