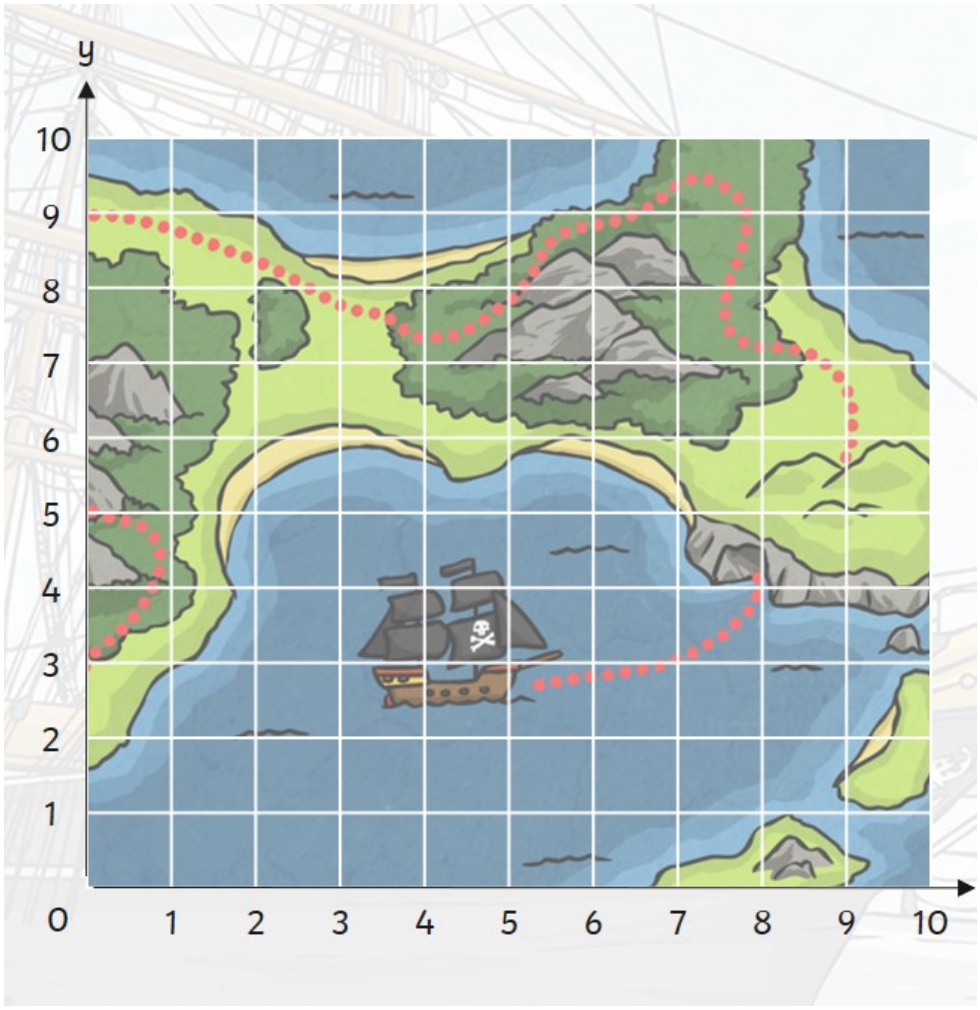
UNIVERSITY OF CAMBRIDGE PRIMARY SCHOOL

MPI: Describing position using co-ordinates.



3 diamonds

4 emeralds

5 rubies

	1	2	3	4	5
Diamonds	(,)	(,)	(,)		
Emeralds	(,)	(,)	(,)	(,)	
Rubies	(,)	(,)	(,)	(,)	(,)

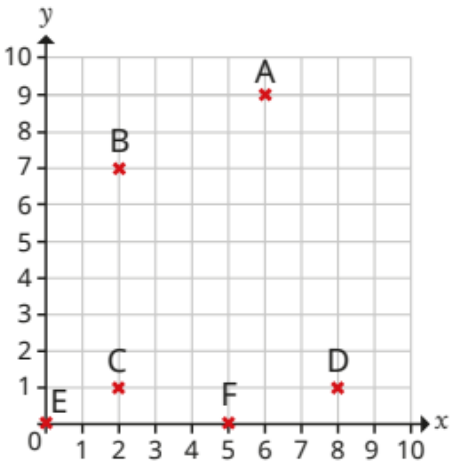
Bury your treasure on the desert island! Draw on the grid where you have buried it and write the co-ordinates for each one in the table.

UNIVERSITY OF CAMBRIDGE PRIMARY SCHOOL

MPI: Describing position using co-ordinates EXTRA PRACTICE

Six points are drawn on a grid.

a) Write the coordinates of each point.



A: (_,_)

B: (_,_)

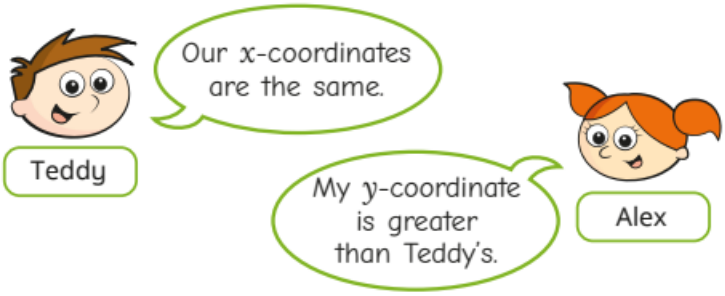
C: (_,_)

D: (_,_)

E: (_,_)

F: (_,_)

b) Teddy and Alex each choose one of the points that have been drawn.



Write the coordinates of the points that Alex and Teddy have chosen.

_____

_____

_____

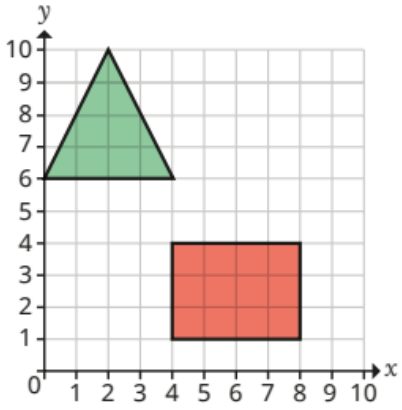
_____

_____

_____

_____

Two shapes are drawn on a grid.



a) Write the coordinates of the vertices of the triangle. _____

b) Write the coordinates of two points inside the rectangle.

Compare answers with a partner. _____

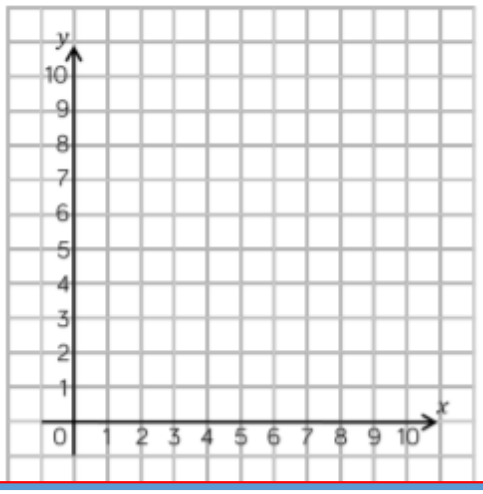
c) Draw another shape on the grid.

Write the coordinates of your shape. _____

UNIVERSITY OF CAMBRIDGE PRIMARY SCHOOL

MPI: Plotting points

Draw the shapes at the correct points on the grid.



(7, 8)

(4, 6)

(9, 1)

(10, 0)

Use a coordinate grid.

a) The cards show the coordinates of six points.

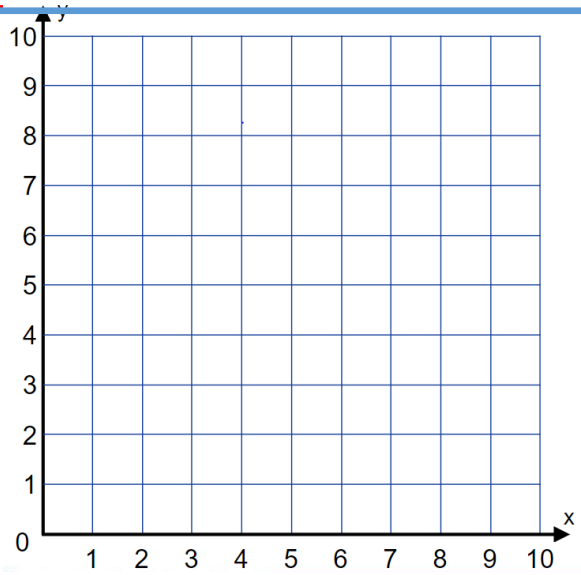
A (4, 4)	B (2, 3)	C (6, 4)
D (10, 8)	E (8, 7)	F (7, 8)

Plot and label the points on the grid.

b) Plot and label the points on the grid.

G (0, 5)	H (9, 0)

What do you notice about these points?



Here are the coordinates of three points.

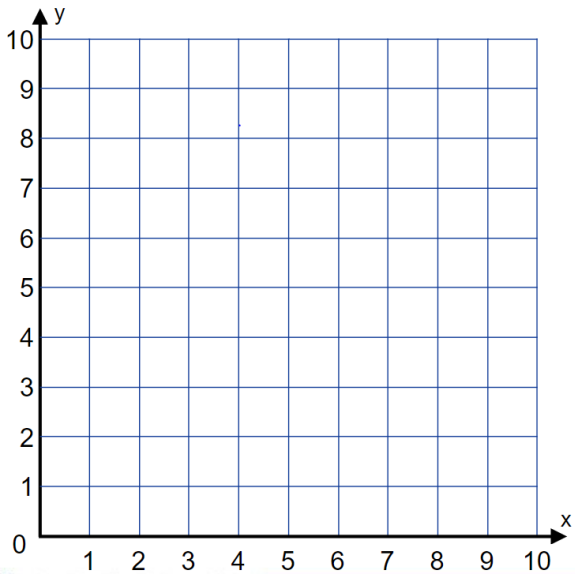
X (1, 3)	Y (2, 5)	Z (3, 7)

a) Plot and label the points on a coordinate grid.

b) Join up the points.

What do you notice?

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



UNIVERSITY OF CAMBRIDGE PRIMARY SCHOOL

MPI: plotting points CHALLENGE

When you are plotting a point on a grid it does not matter whether you go up or across first as long as you do one number on each axis.

Amir

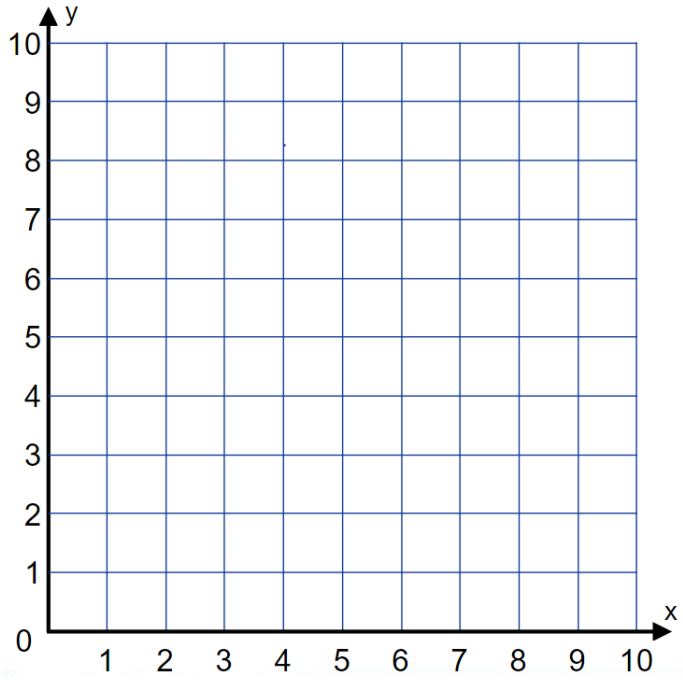
Do you agree with Amir?
Convince me.

Always, Sometimes, Never.

The number of points is equal to the number of vertices when they are joined together.

Plot the points on a coordinate grid.

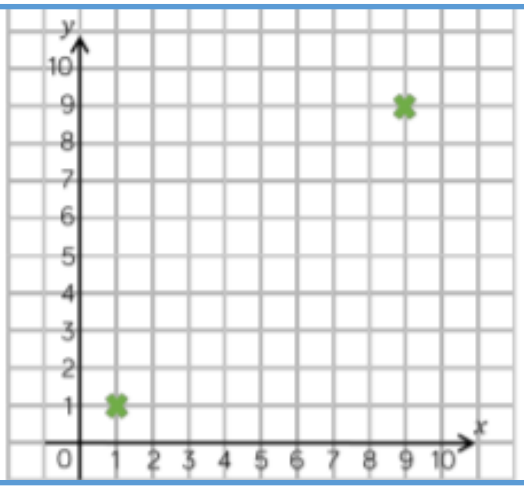
A (2, 5) B (7, 3) C (5, 1) D (0, 9) E (4, 0)



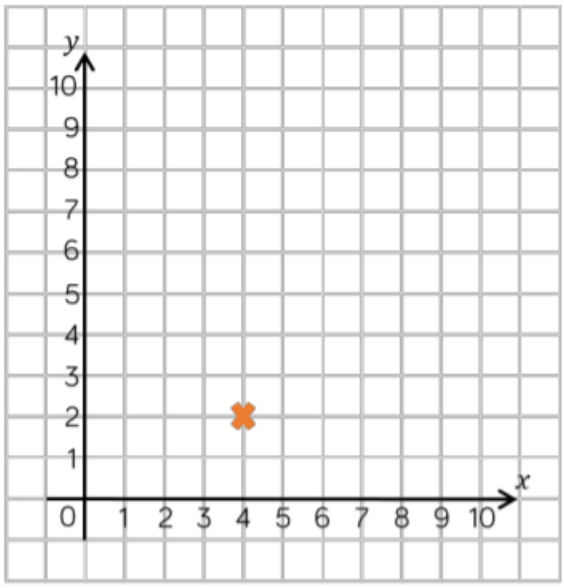
UNIVERSITY OF CAMBRIDGE PRIMARY SCHOOL

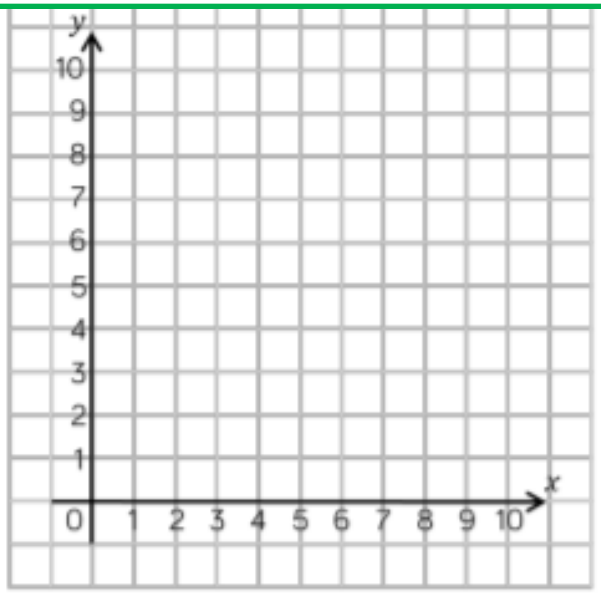
MPI: plotting shapes CHALLENGE

Plot two more points to create a square.



What shapes could be made by plotting three more points?





Plot points on the grid to make these shapes.

Write the coordinates for the different vertices.

Triangle (,)(,)(,)

Rectangle (,)(,)(,)(,)

Quadrilateral (,)(,)(,)(,)

Invent a shape!