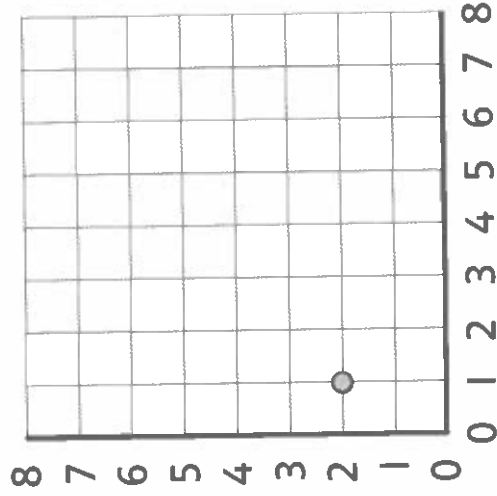


Drawing on a grid

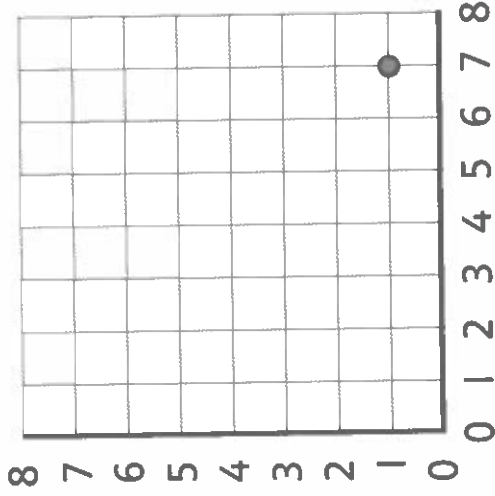
1 Each of these points is a corner of a different shape.

Here are the coordinates of all of the corners of the shapes.
Plot the points, and draw the shapes.

a) (1,2), (2,2), (2,7)

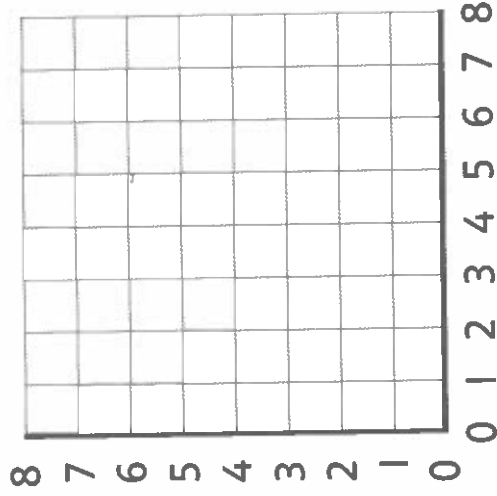
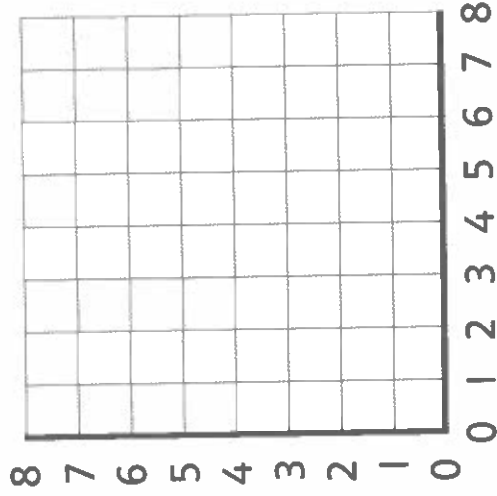


b) (7,1), (7,4), (4,4), (5,1)



2 Draw these straight-sided shapes on the grid. What shapes are they?

a) Vertices at (1,5), (1,7) and (4,6). b) Vertices at (1,1), (3,1), (3,4), (2,4) and (1,3).



3 Here are the coordinates of some points on two lines.

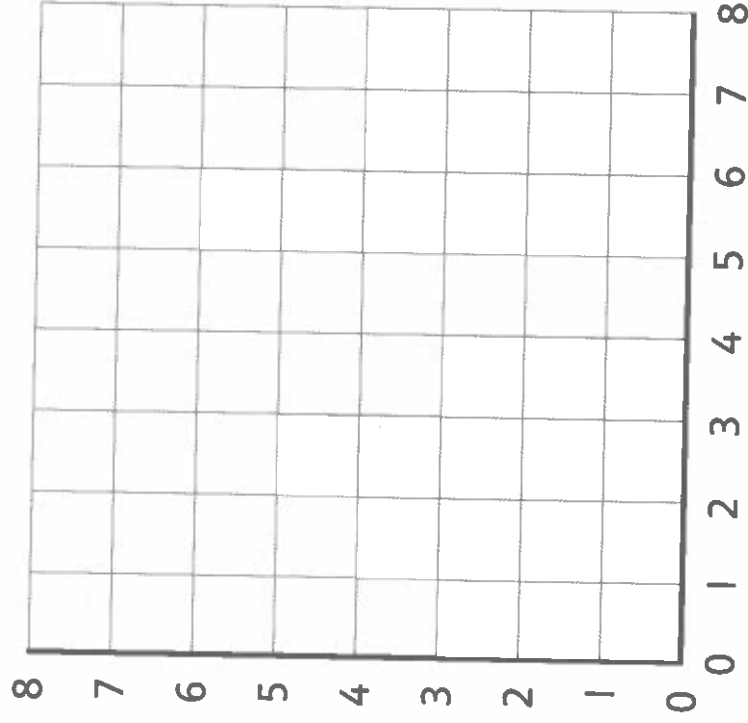
- Line 1: (0,3), (1,3), (2,3), (3,3), (4,3), (5,3), (6,3), (7,3), (8,3)
- Line 2: (5,8), (5,7), (5,6), (5,5), (5,4), (5,3), (5,2), (5,1), (5,0)

a) Can you work out what the lines will look like before you draw them? Write down your prediction.

Line 1: _____

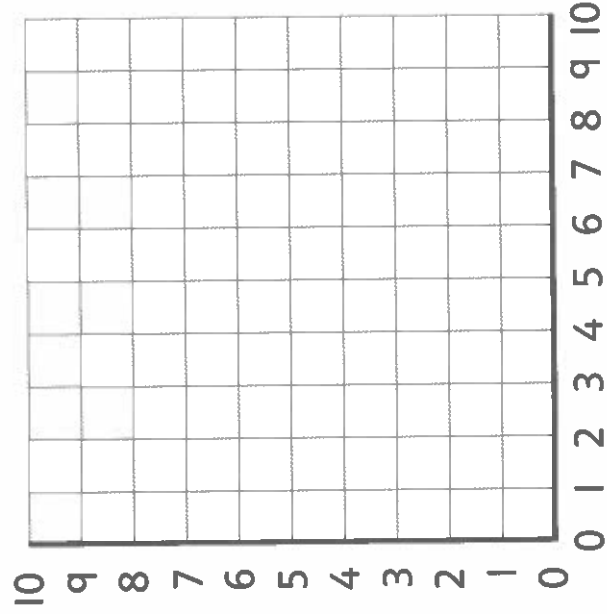
Line 2: _____

b) Plot the coordinates and draw the lines.



Were your predictions correct?

- 4 a) Draw a design for a star shape on this grid.



- b) Write the coordinates of all the vertices.

Reflect

(3,9) and (3,5) are two points on the same straight line. Is the line horizontal or vertical? Explain your answer.

• _____

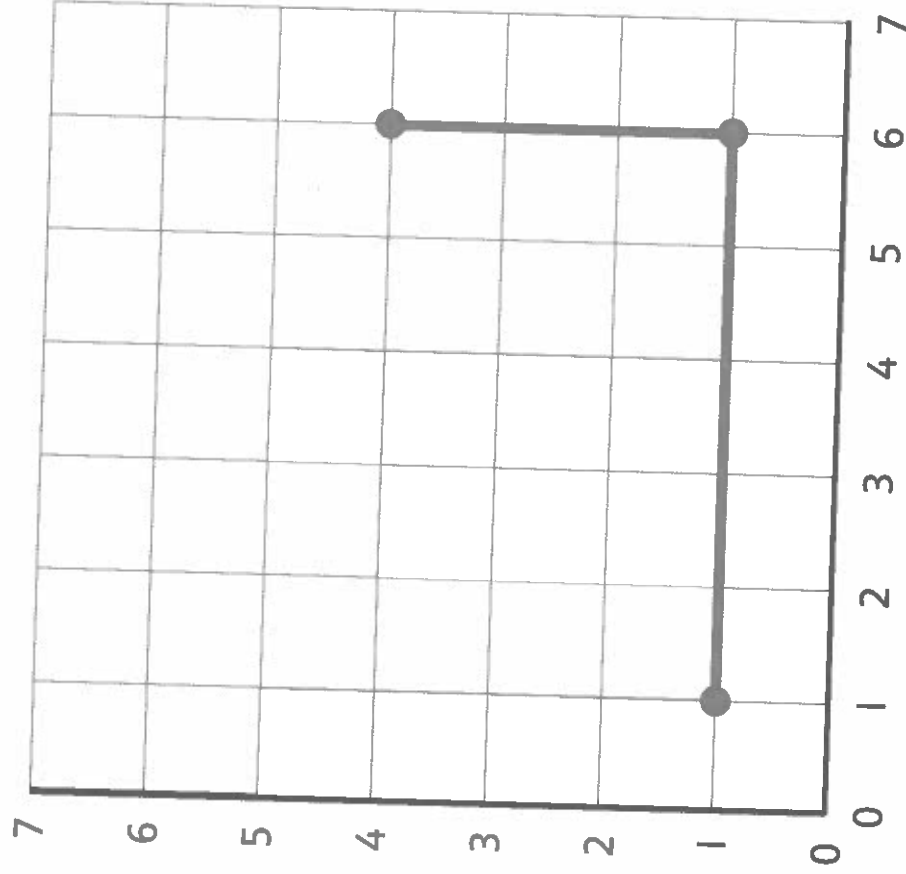
• _____

• _____

• _____

Reasoning on a grid

- 1 Amelia is drawing a rectangle.



Complete the rectangle and write the coordinates of all four vertices.

(,).

(,).

(,).

(,).