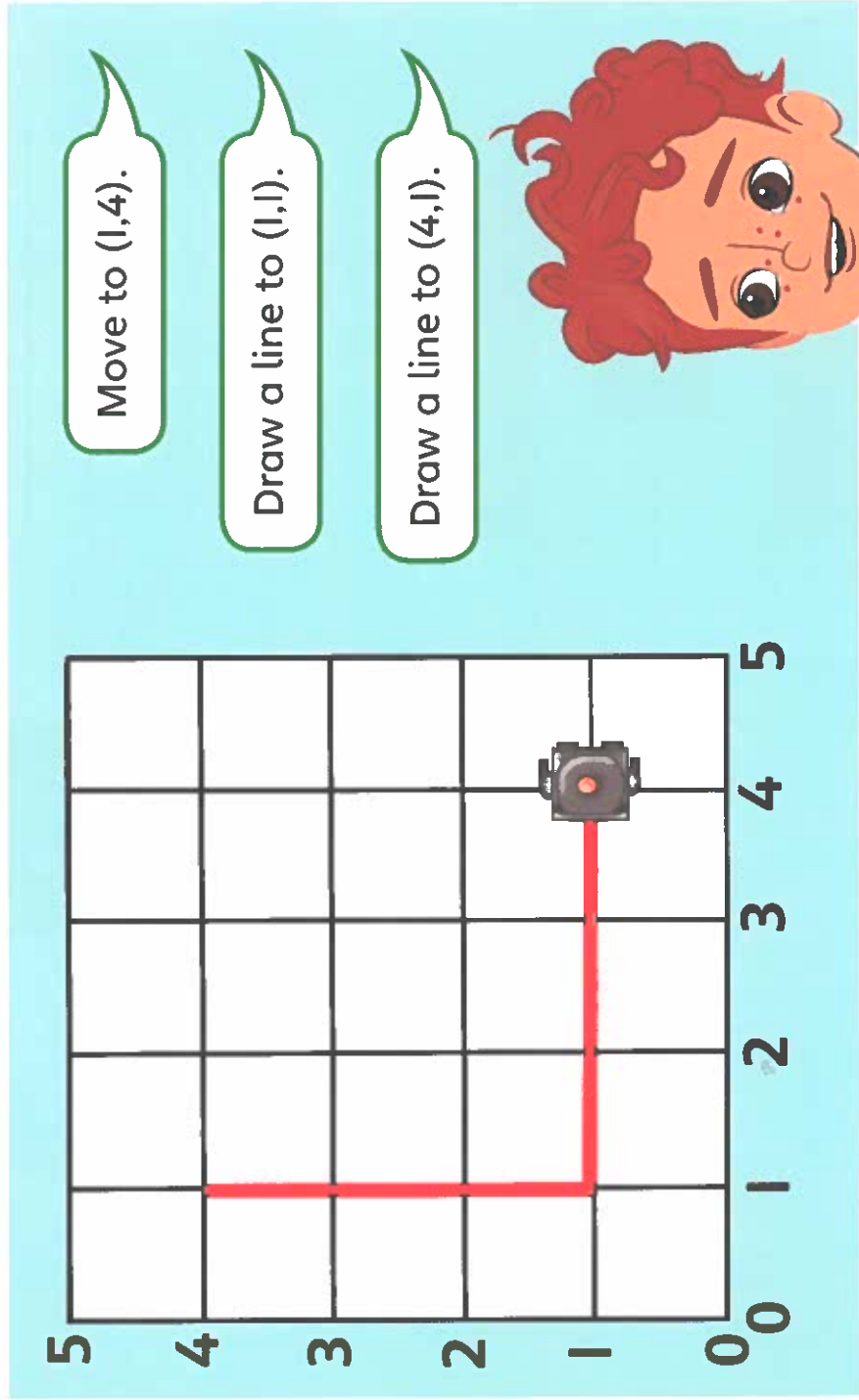


Reasoning on a grid

Discover



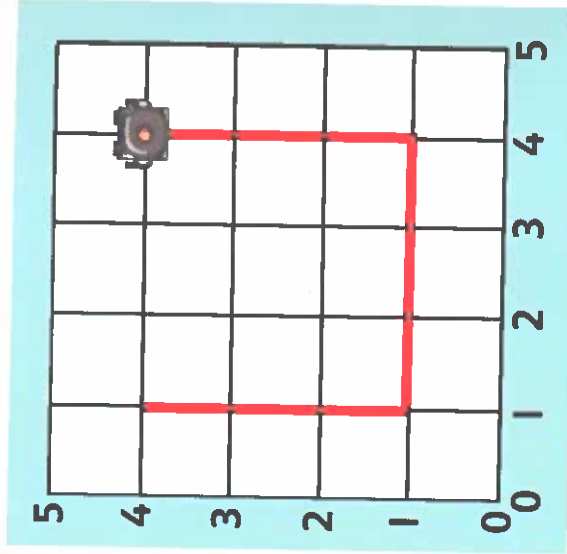
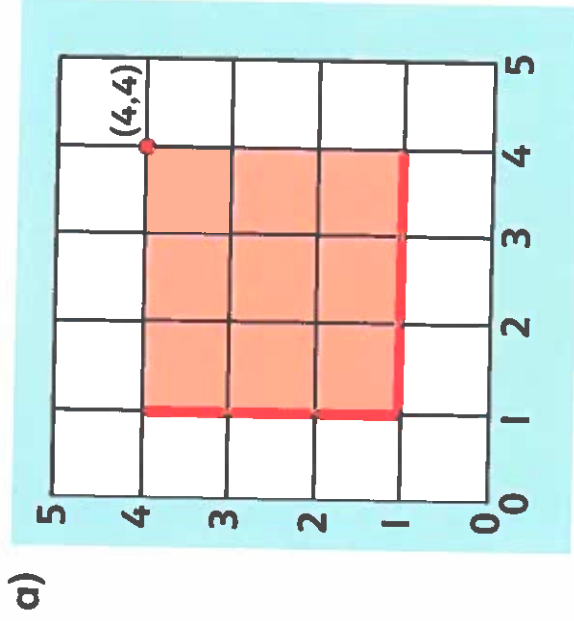
Richard

I can make this robot draw lines to make a square.

- 1 a) What command should Richard give next?
- b) What is the final command that is needed to finish the square?

Share

I will shade the square to find where the missing corner is.



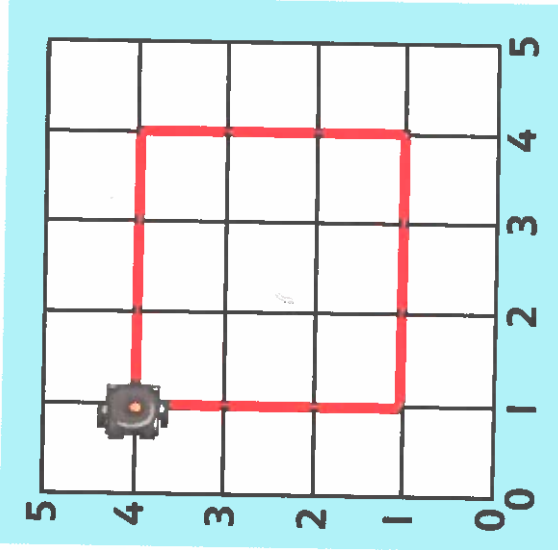
The next command Richard should give is: Draw a line to (4,4).

b)

A square has four sides, so you need to go back to the starting point to finish it.



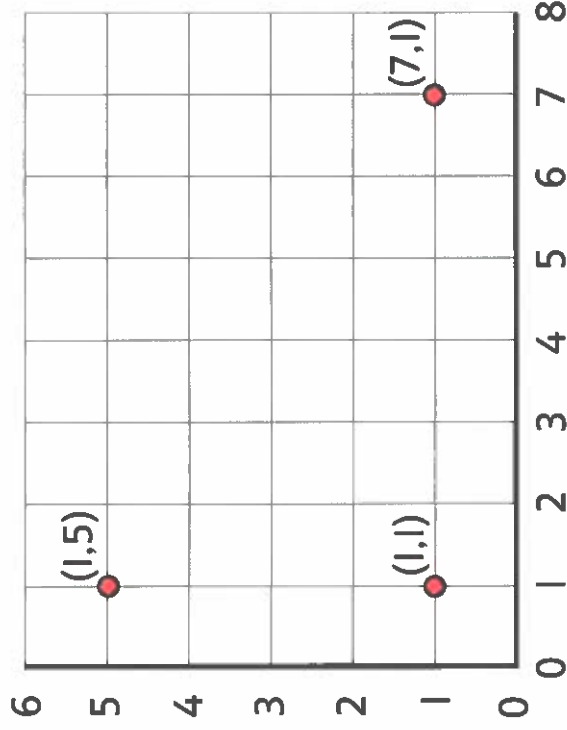
The final command that is needed to finish the square is: Draw a line to (1,4).



Think together

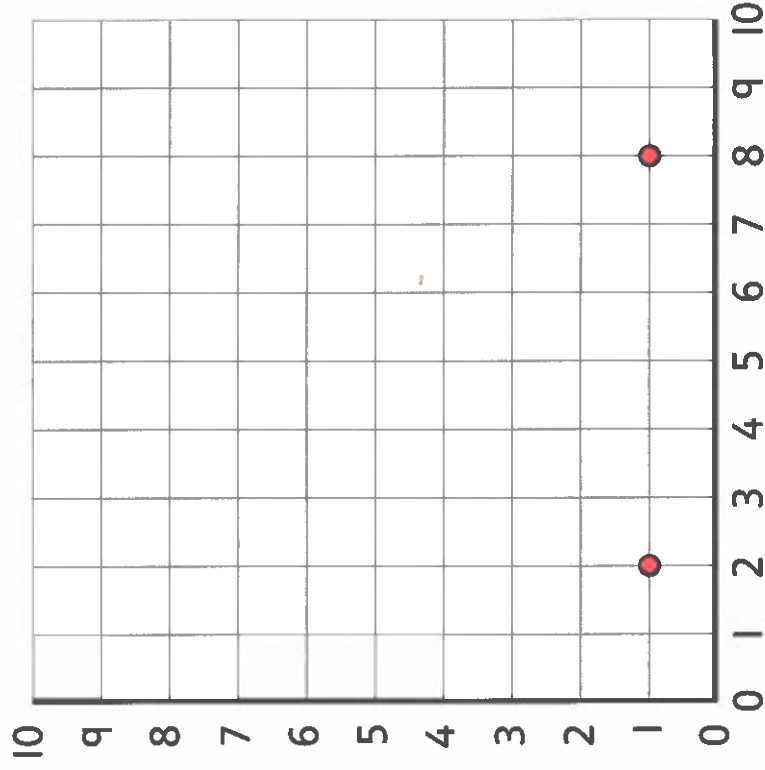
- 1 Zeb has plotted points at three of the corners of a rectangle.

What are the coordinates of the final corner?



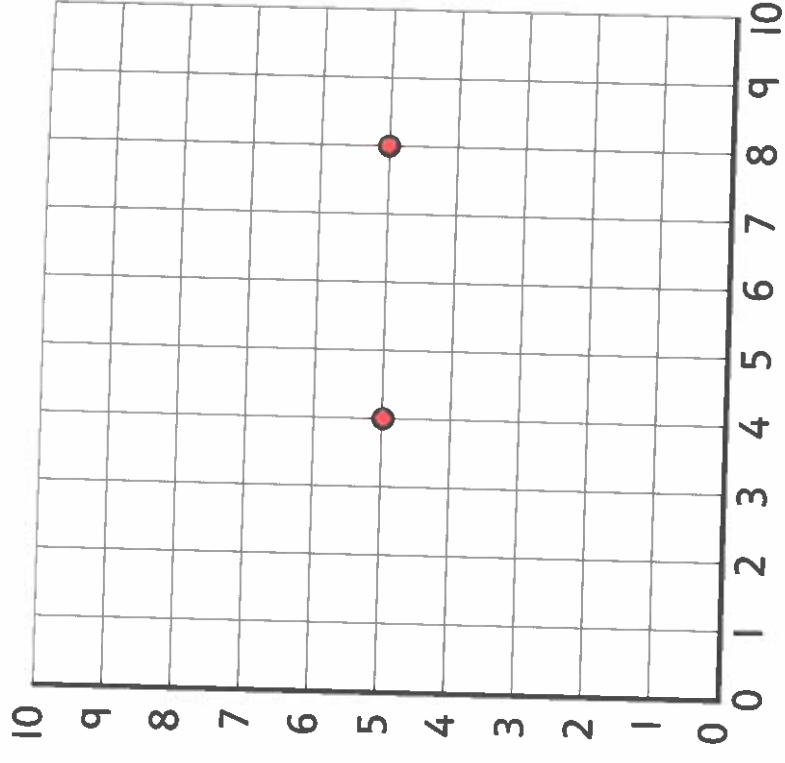
- 2 The two points on this grid are two corners of a square. The whole square fits inside the grid.

What are the coordinates of the other two corners?



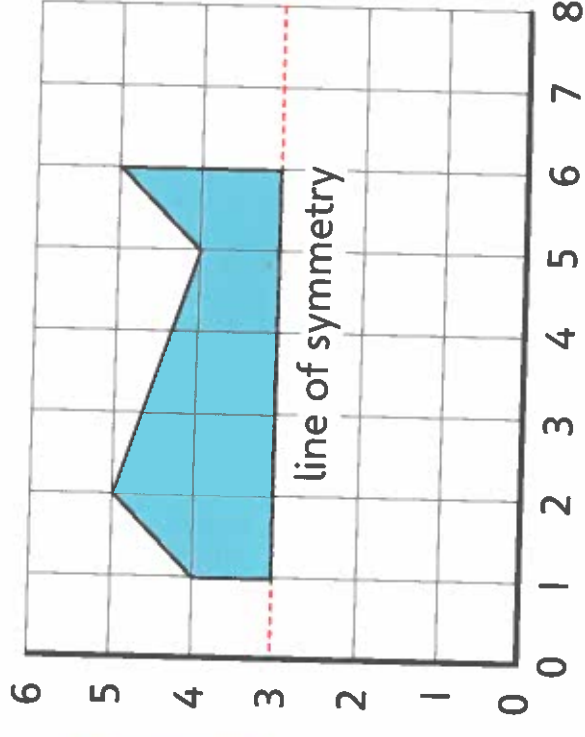
- 3 The two points on this grid are two corners of a square.

What are the coordinates of the other two corners?
(There is more than one answer!)



- 4 The blue shape is part of a shape with one line of symmetry.

What are the missing coordinates of the vertices of the shape?



I can remember how to do this. Each vertex is the same distance on the other side of the line of symmetry.



CHALLENGE