

Co-ordinate Problems

1. Marv plots (3, 3). He adds the two co-ordinate points together to get 6.

He continues to plot co-ordinate points so that the sum is **one more** each time. So, the next co-ordinate sum will be 7 and so on.

Marv says the points will make a vertical line. His friend, Vena, says the line will be horizontal.

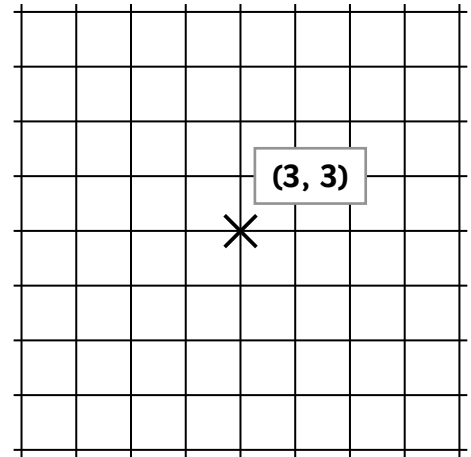
Use the grid to work out why they could **both** be correct. Fill in the possible co-ordinates for the next four points.

Vertical line:

(3, 3), (.....,), (.....,), (.....,), (.....,)

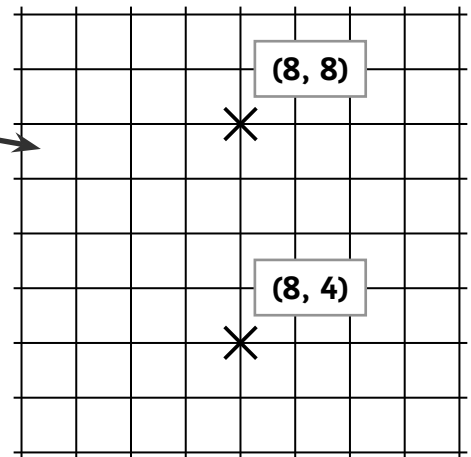
Horizontal line:

(3, 3), (.....,), (.....,), (.....,), (.....,)

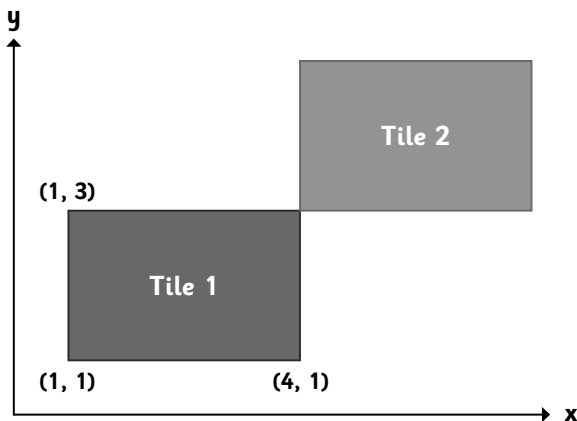


2. Marv plots (8, 8) and (8, 4) on another grid. What other points could he plot to make a square?

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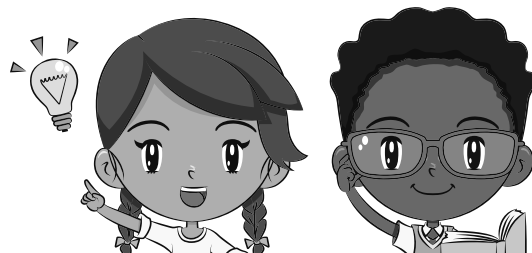


3. Marv and Vena are making tile patterns. They use the same sized tiles each time. They work out some co-ordinates of Tile 1. Find the remaining co-ordinates of the tiles.



Tile 1: (1, 1), (4, 1), (1, 3)

Tile 2:



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Answers

1. Marv plots (3, 3). He adds the two co-ordinate points together to get 6.

He continues to plot co-ordinate points so that the sum is **one more** each time. So, the next co-ordinate sum will be 7 and so on.

Marv says the points will make a vertical line. His friend, Vena, says the line will be horizontal.

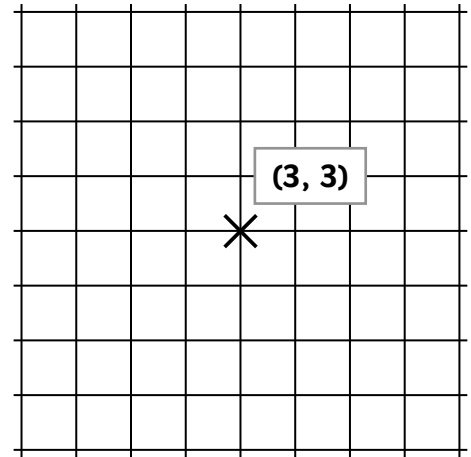
Use the grid to work out why they could **both** be correct. Fill in the possible co-ordinates for the next four points.

Vertical line:

(3, 3), (3, 4), (3, 5), (3, 6), (3, 7)

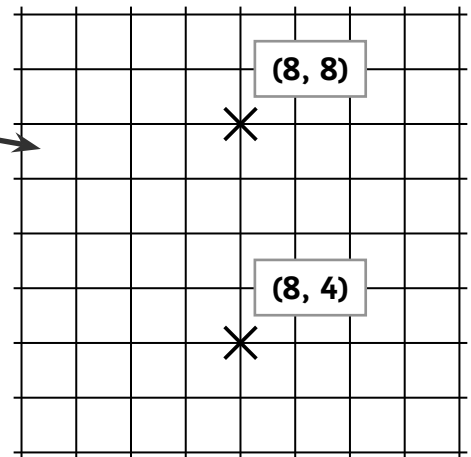
Horizontal line:

(3, 3), (4, 3), (5, 3), (6, 3), (7, 3)

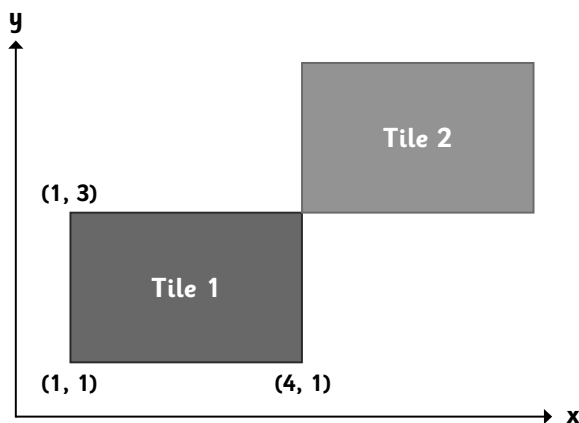


2. Marv plots (8, 8) and (8, 4) on another grid. What other points could he plot to make a square?

(4, 8) and (4, 4) OR (12, 8) and (12, 4)



3. Marv and Vena are making tile patterns. They use the same sized tiles each time. They work out some co-ordinates of Tile 1. Find the remaining co-ordinates of the tiles.



Tile 1: (1, 1), (4, 1), (1, 3), (4, 3)

Tile 2: (4, 3), (4, 5), (7, 3), (7, 5)

