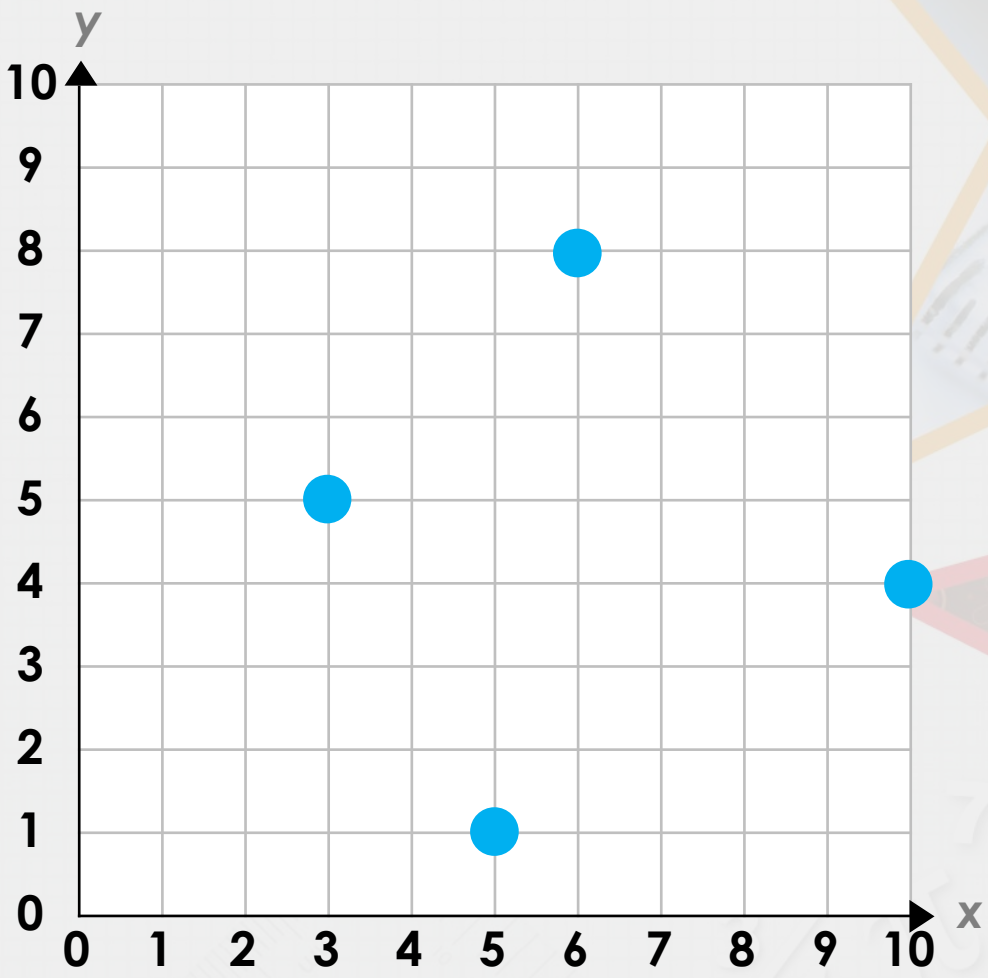
Step 3: Move on a Grid

Introduction

Identify the coordinates for each point on the grid.



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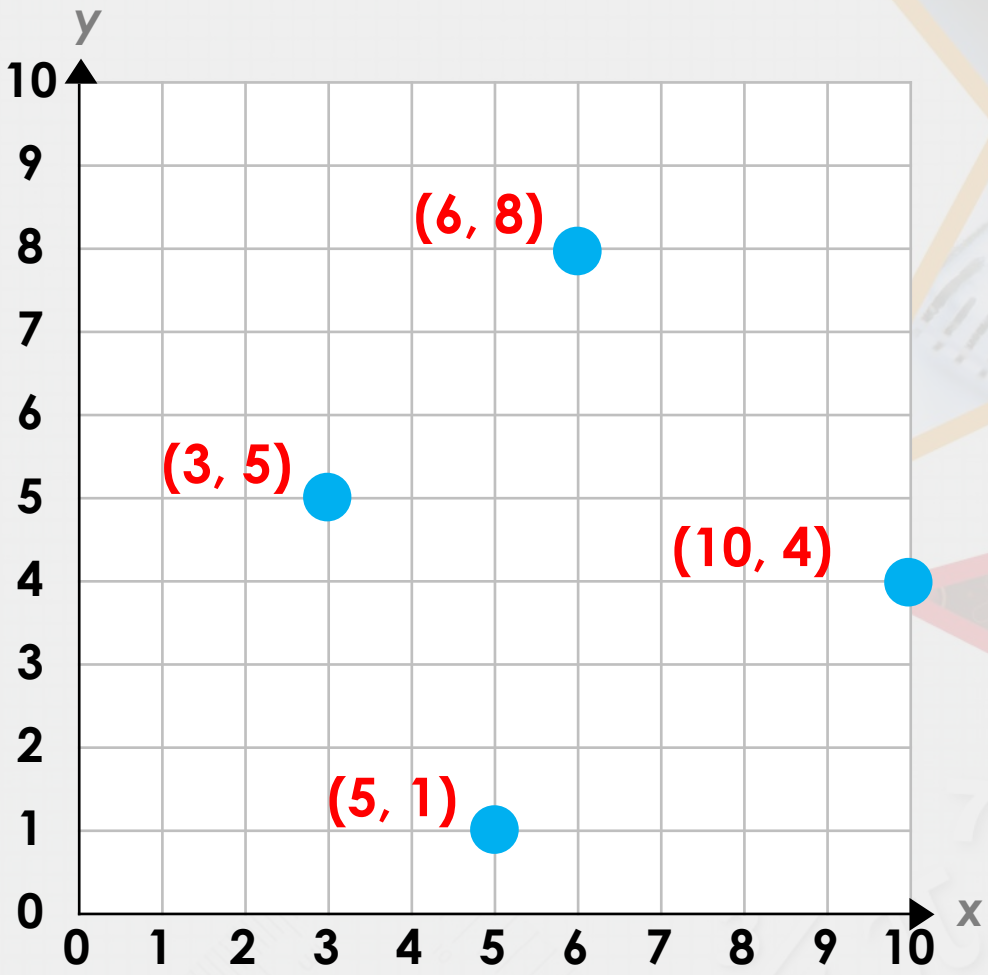
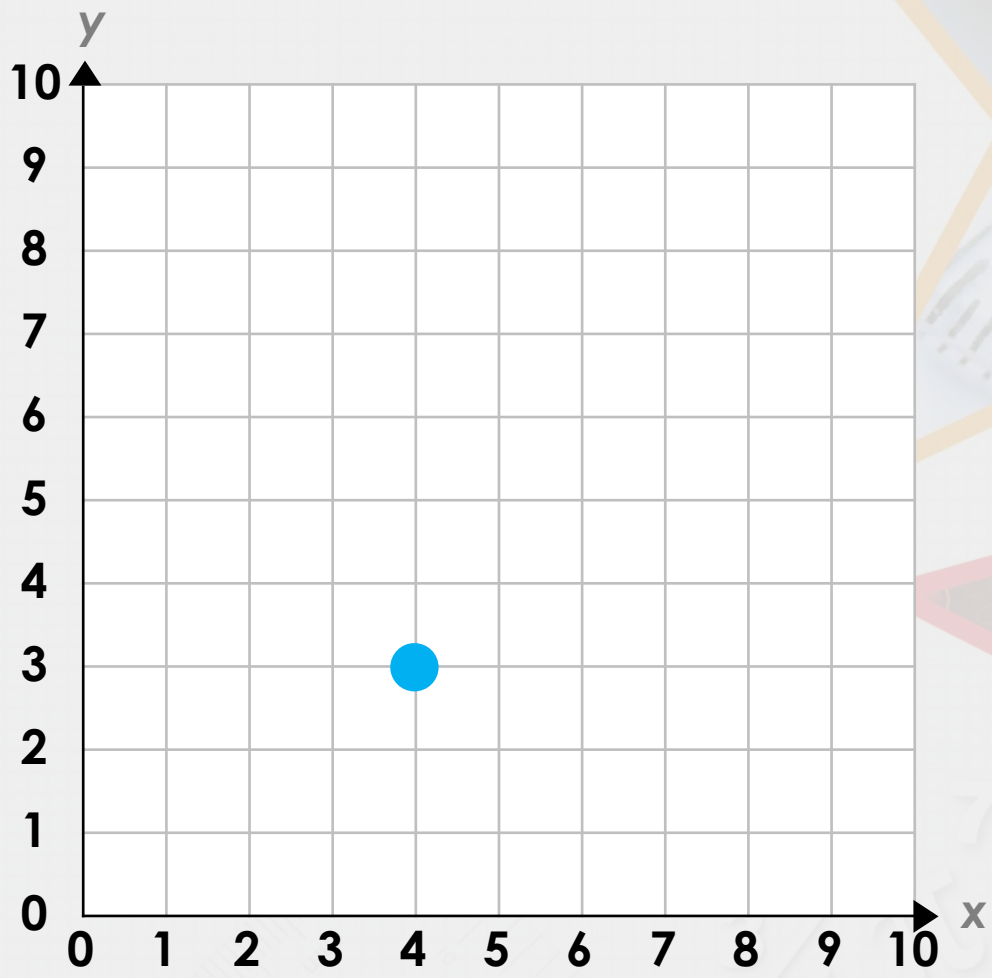


Varied Fluency 1

Translate the point 4 left and 3 up. Record the new coordinates.



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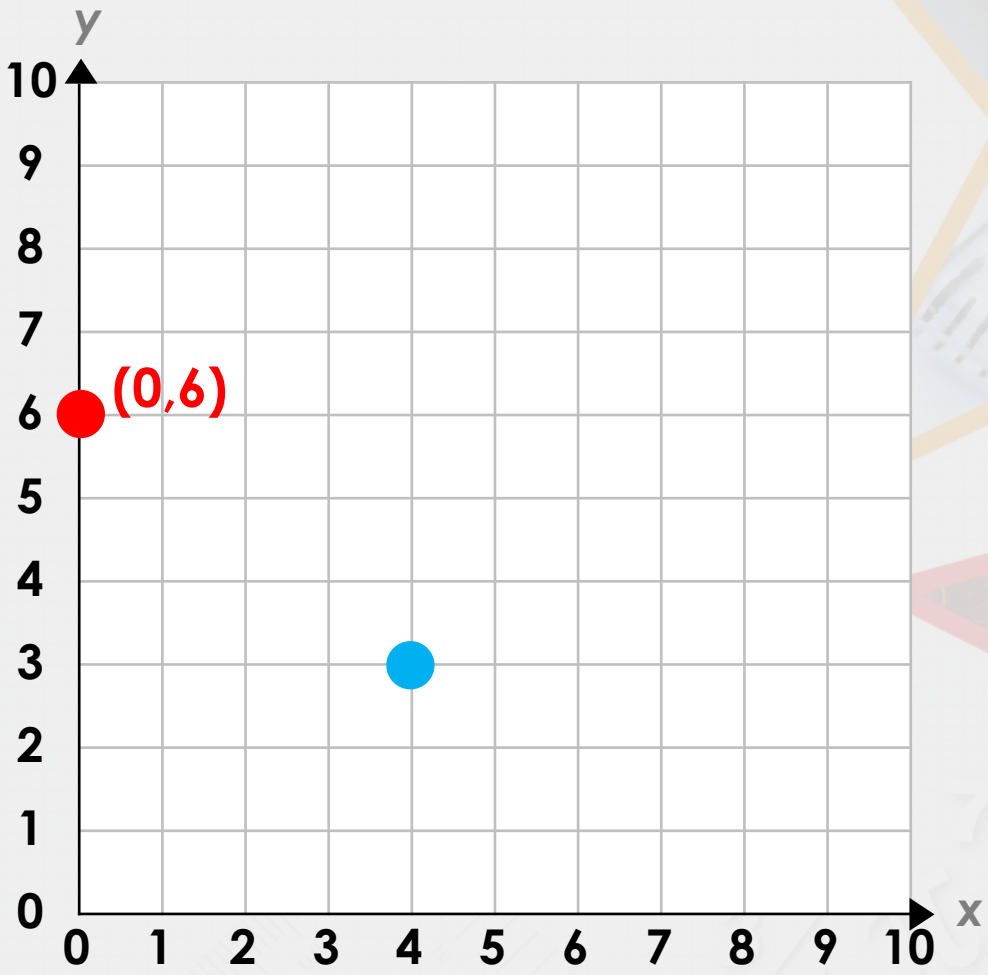
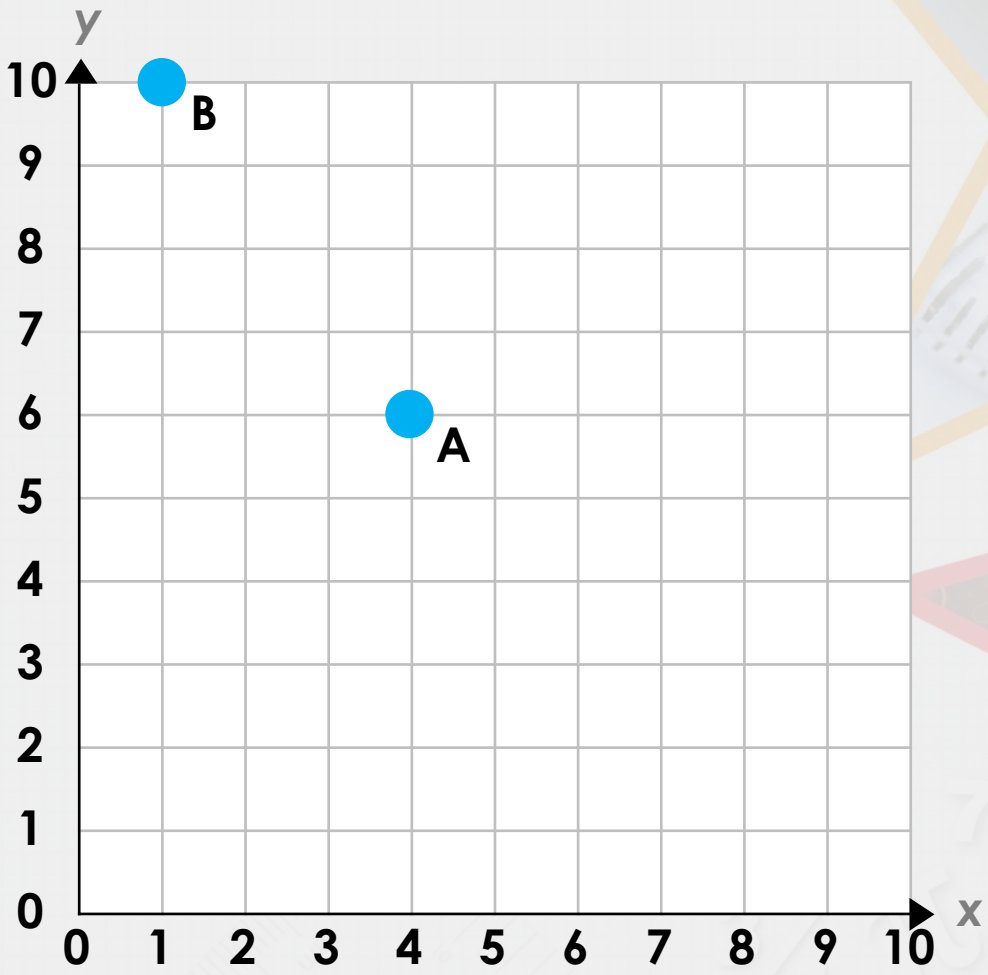


Varied Fluency 2

True or False? Point A has been translated 3 right and 4 up to point B.



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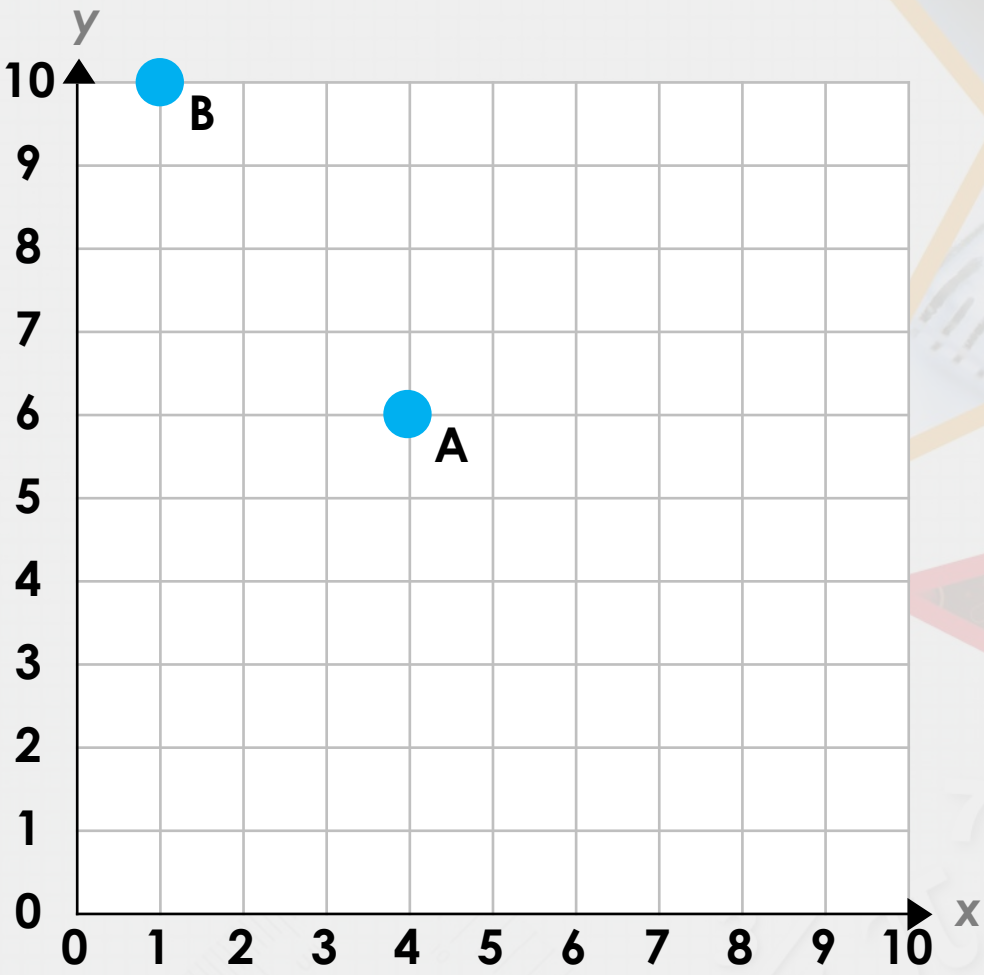
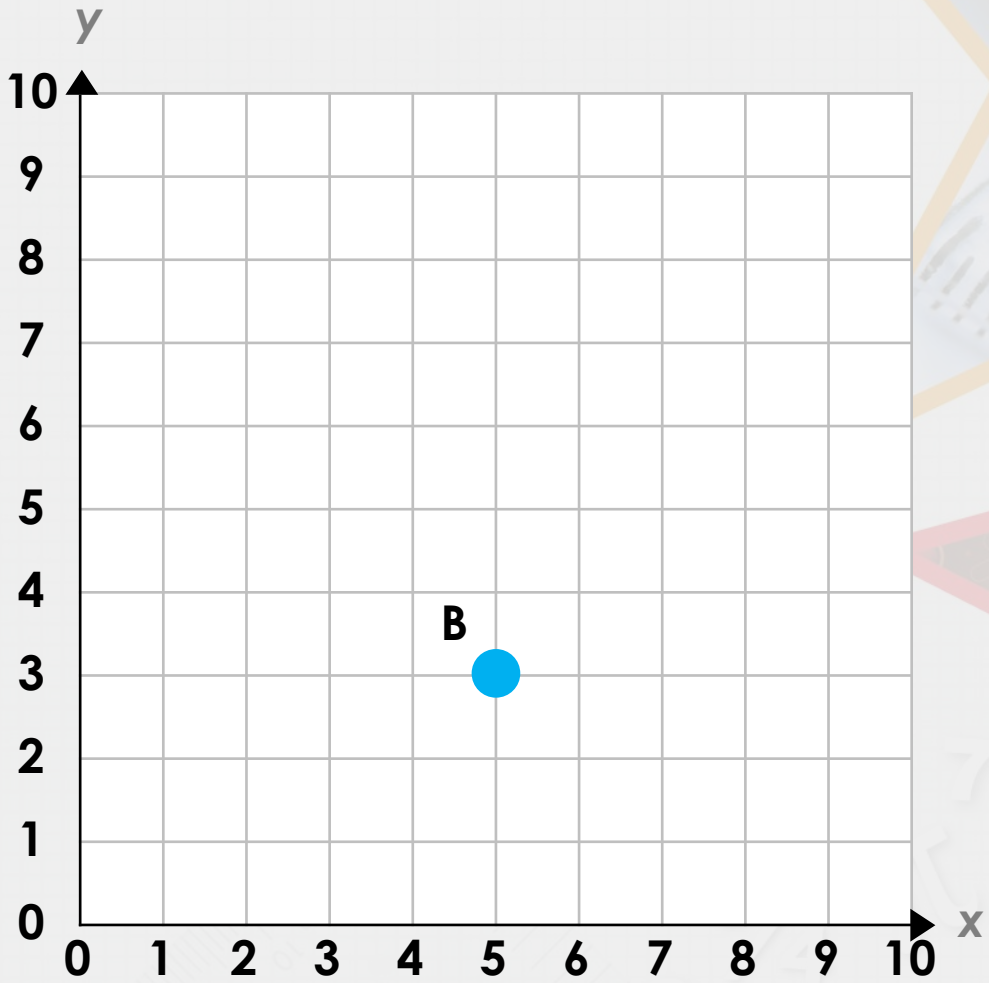


False.

A has been translated 3 left and 4 up.

Varied Fluency 3

Point A has been translated 3 squares right and 5 squares down to point B. Record the original coordinates for point A.



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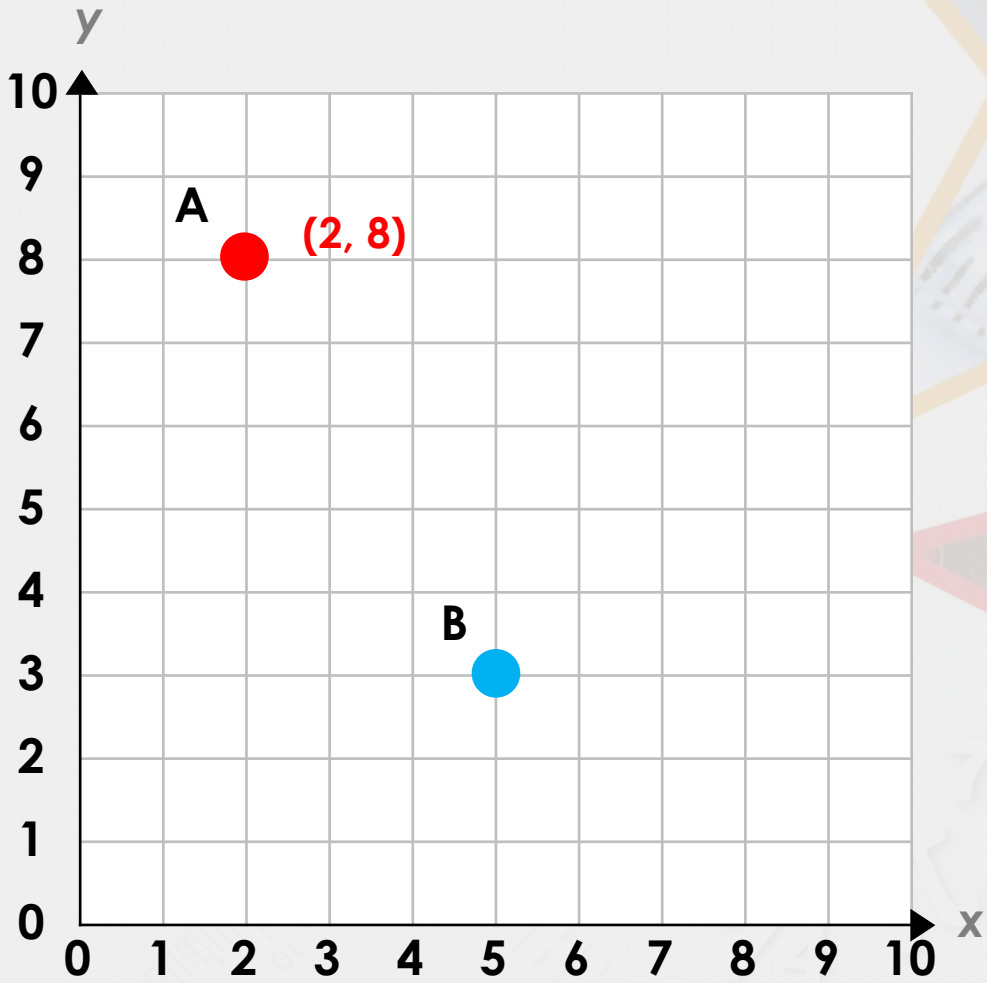
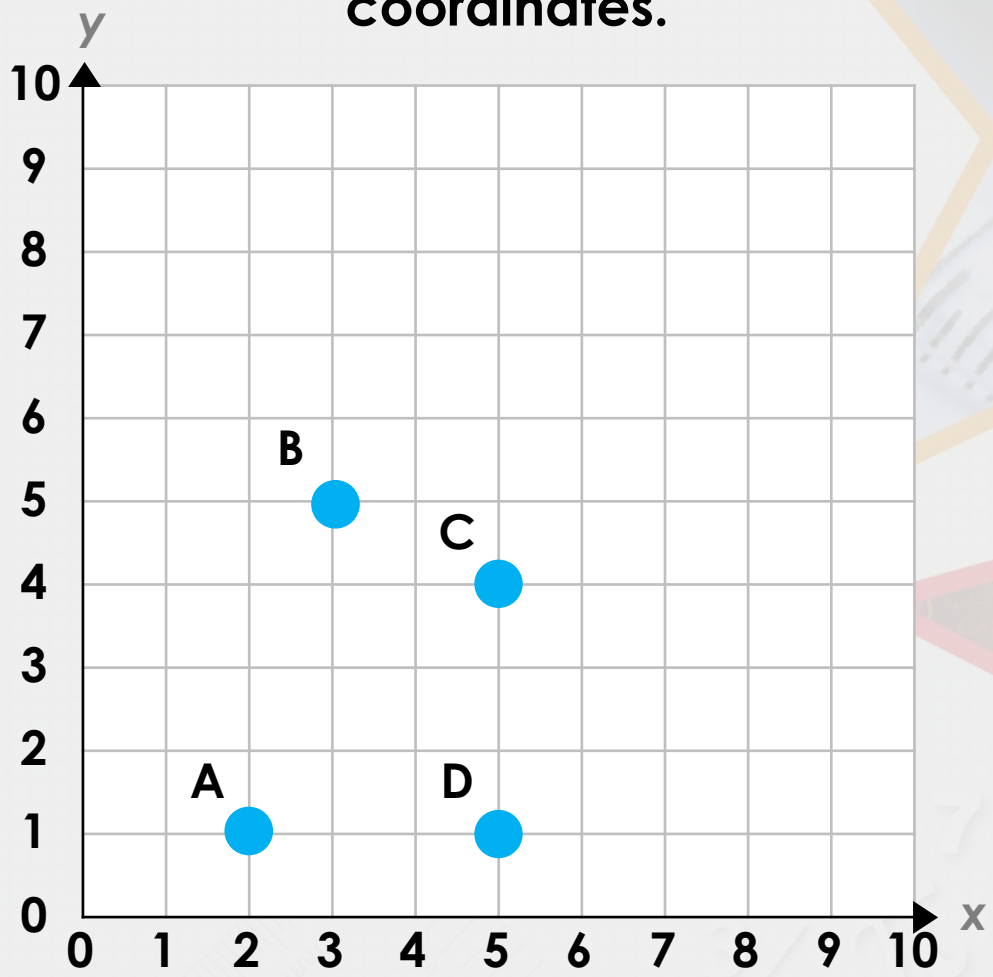


Problem Solving 1

Move one point to create the vertices for a square. Record the new coordinates.



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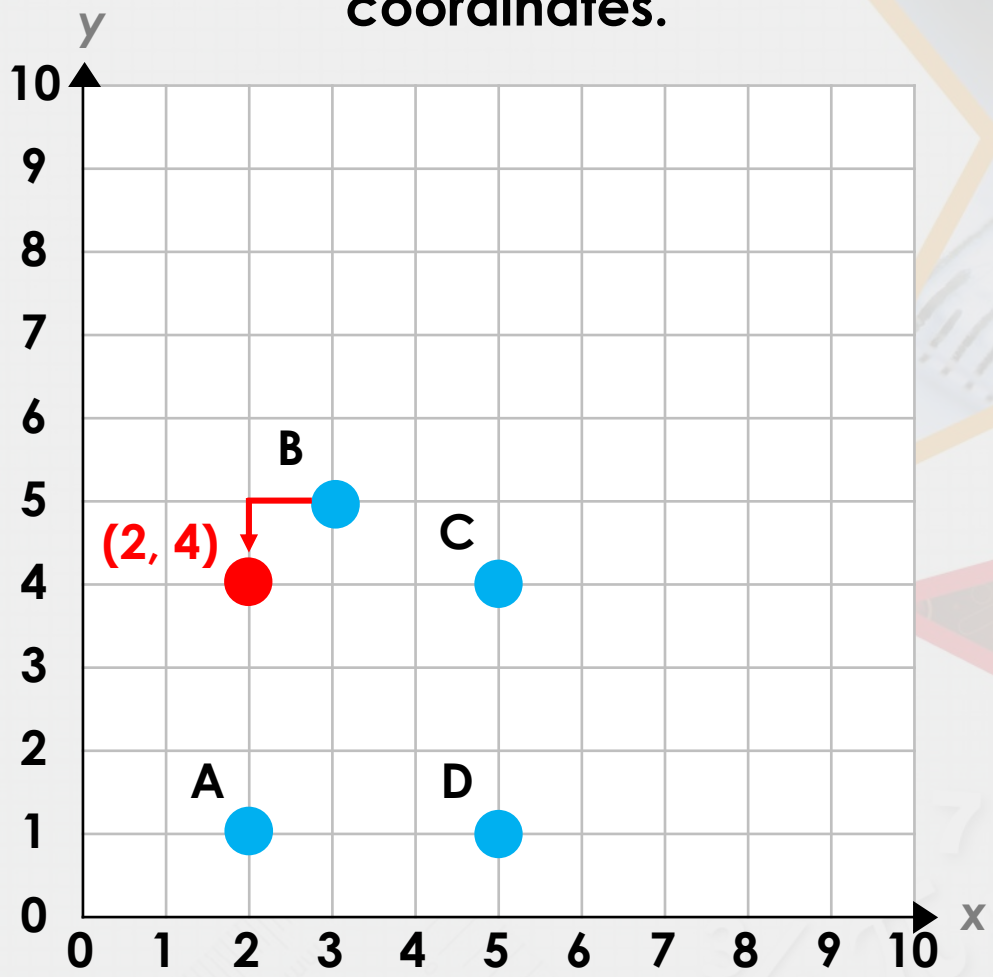


Reasoning 1

Points are placed on the following coordinates:

(7, 5) (4, 7) (5, 4)

Each of the points have been moved 2 squares in one direction and 2 squares in another.

What could the new coordinates be?
Find 2 possibilities.

Reasoning 1

Points are placed on the following coordinates:

(7, 5) (4, 7) (5, 4)

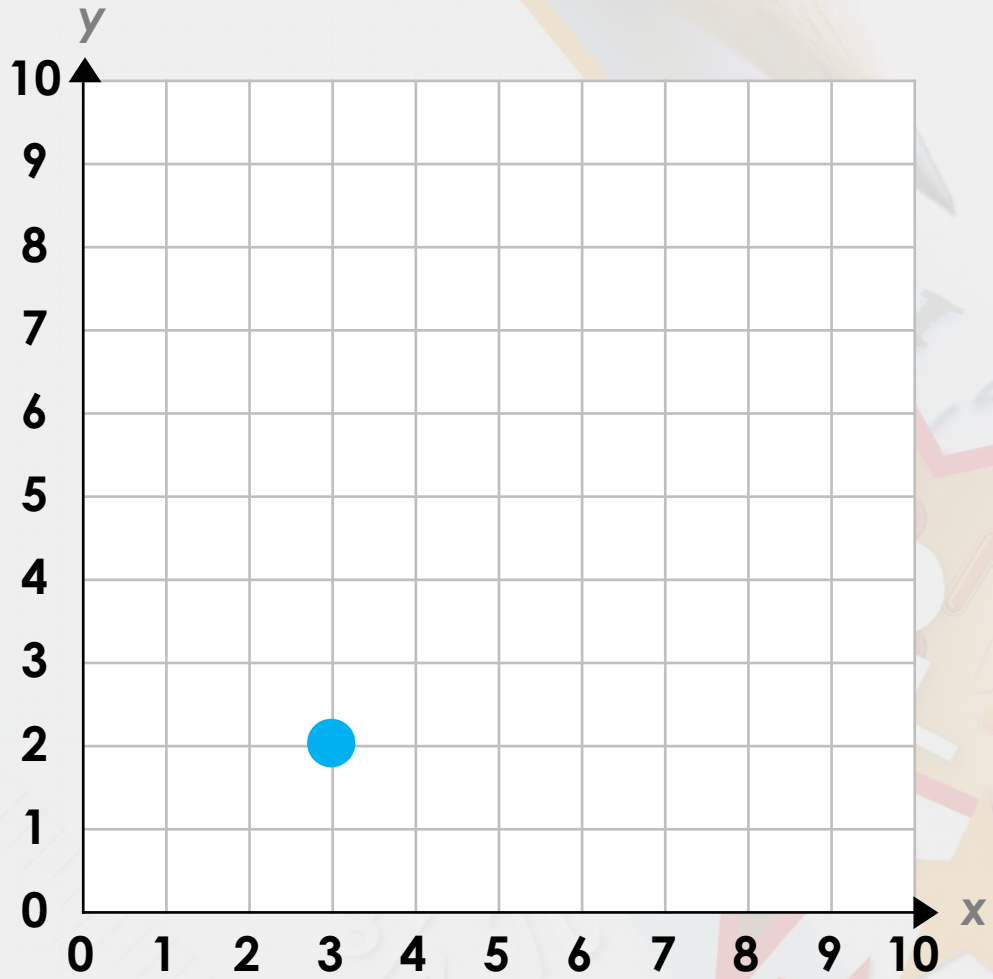
Each of the points have been moved 2 squares in one direction and 3 squares in another.

What could the new coordinates be?
Find 2 possibilities.

(9, 8), (6, 10), (7, 7) or (5, 2), (2, 4), (3, 1)

Reasoning 2

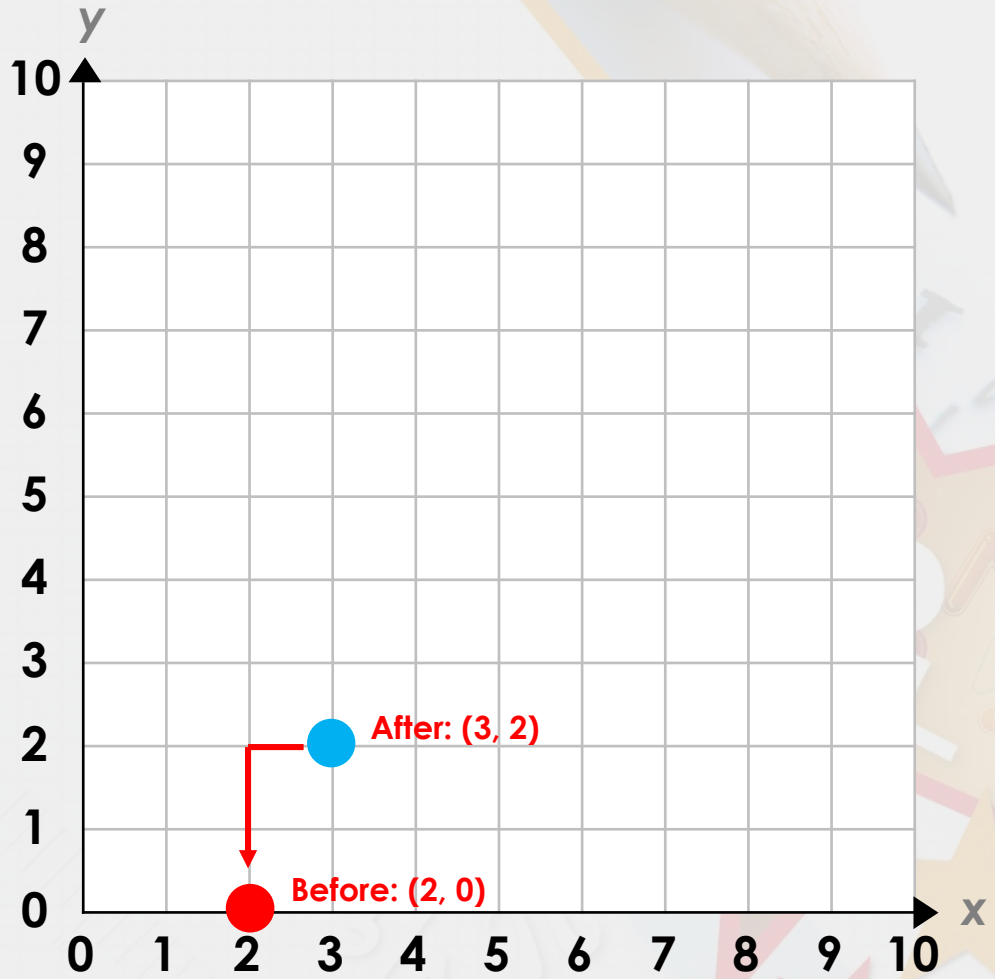
The point was moved 1 right and 2 up.
Greg thinks the original co-ordinates were (4, 4).
Is he correct? Prove it.



Reasoning 2

The point was moved 1 right and 2 up.
Greg thinks the original co-ordinates were (4, 4).
Is he correct? Prove it.

Greg is incorrect because…



Reasoning 2

The point was moved 1 right and 2 up.
Greg thinks the original co-ordinates were (4, 4).
Is he correct? Prove it.

Greg is incorrect because he has translated the point on the grid 1 right and 2 up to find the coordinates (4, 4). The original co-ordinates were (2, 0) which is 1 right and 2 up from (3, 2).