



THIRD SPACE
LEARNING

Ready-to-go Lesson Slides

Year 6

Position and Direction

Lesson 1

Aut

To be able to read and plot co-ordinates in the first quadrant

STARTER:

Some people say: “Go along the corridor, then up the stairs” to remember how to read co-ordinates.

Using your own words, or using some of the words below, write your own saying:

lift
runway
escalator
river
ladder
stream
sky
the earth
tower
path
mountain
hallway
space
stars
pavement
steps
road
steeple

Success Criteria:

Mastery:

I can read and plot co-ordinates in the correct order (x axis, then y axis).

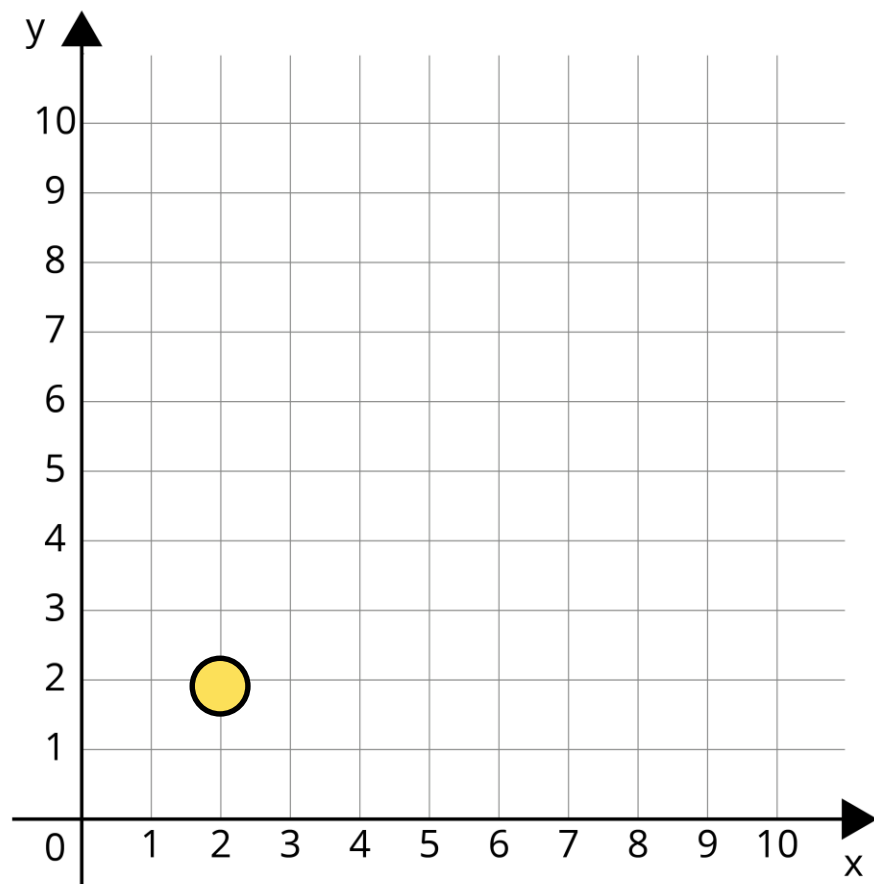
Greater Depth:

I can apply reasoning to explain my knowledge of plotting co-ordinates in the correct order (x axis, then y axis).

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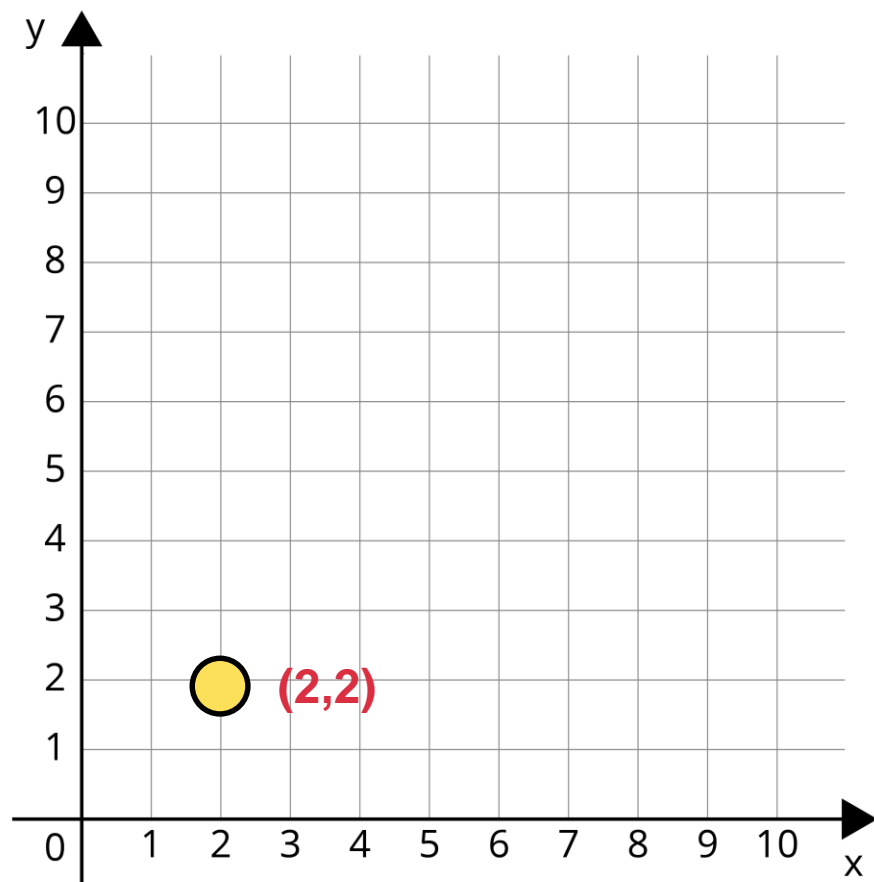
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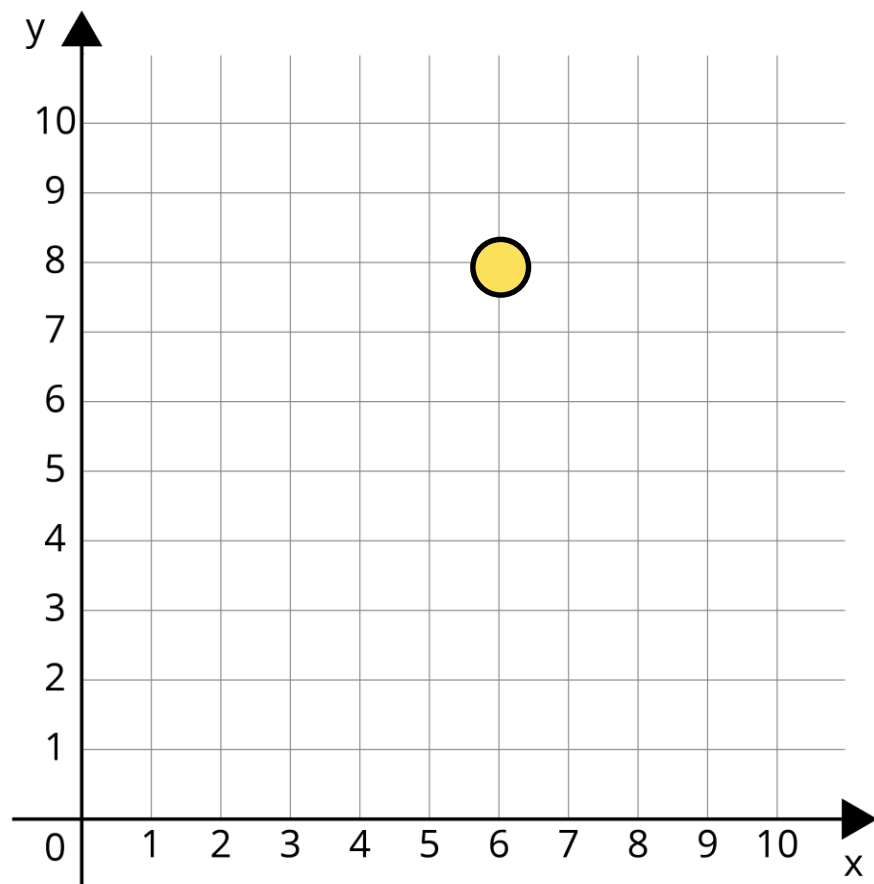
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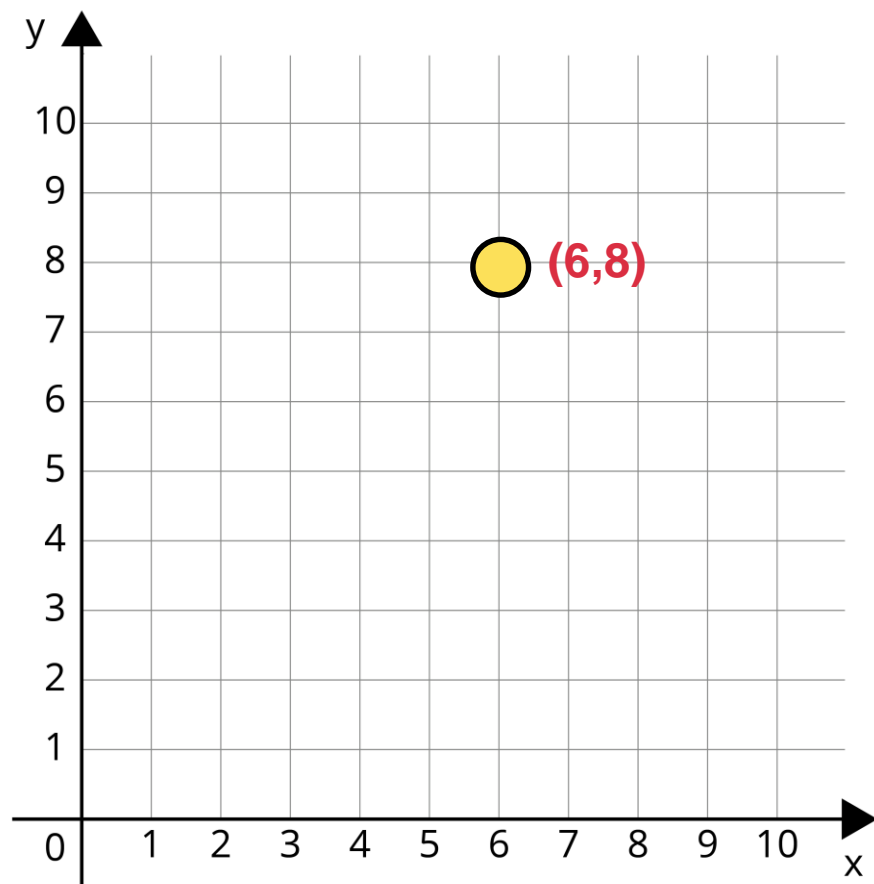
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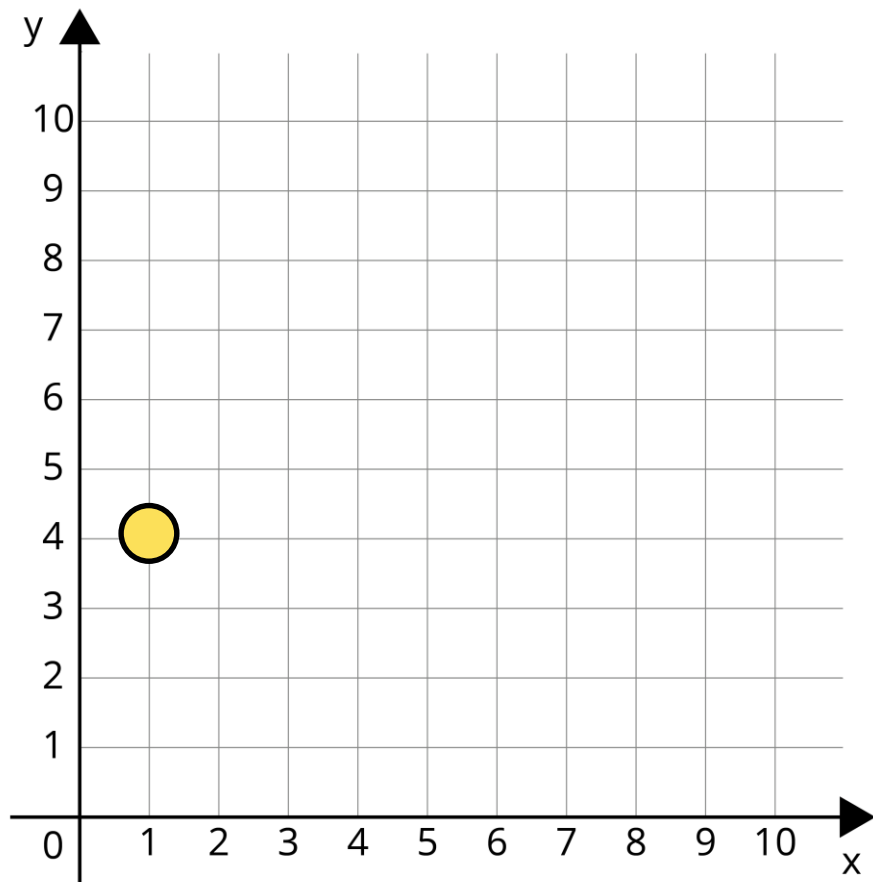
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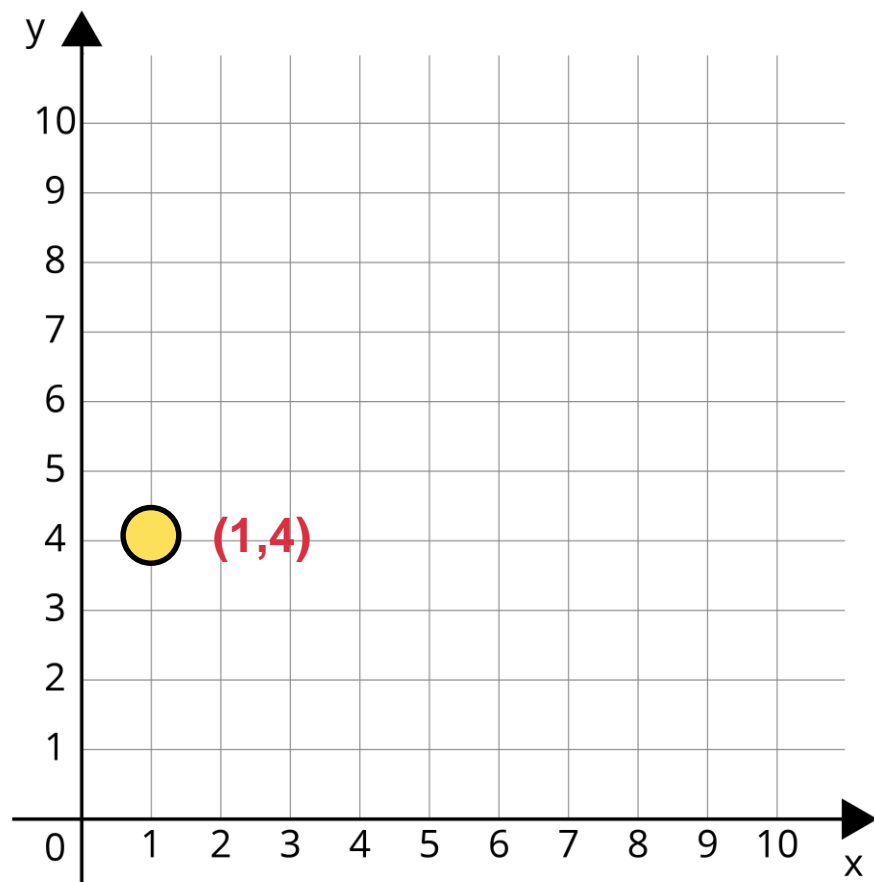
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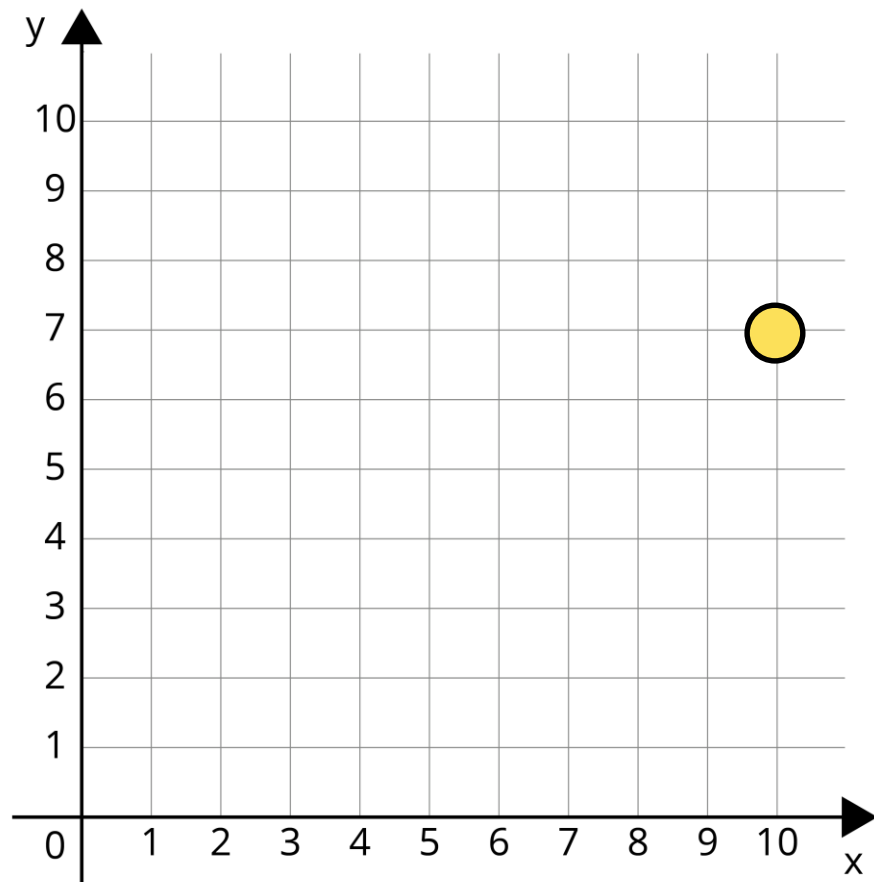
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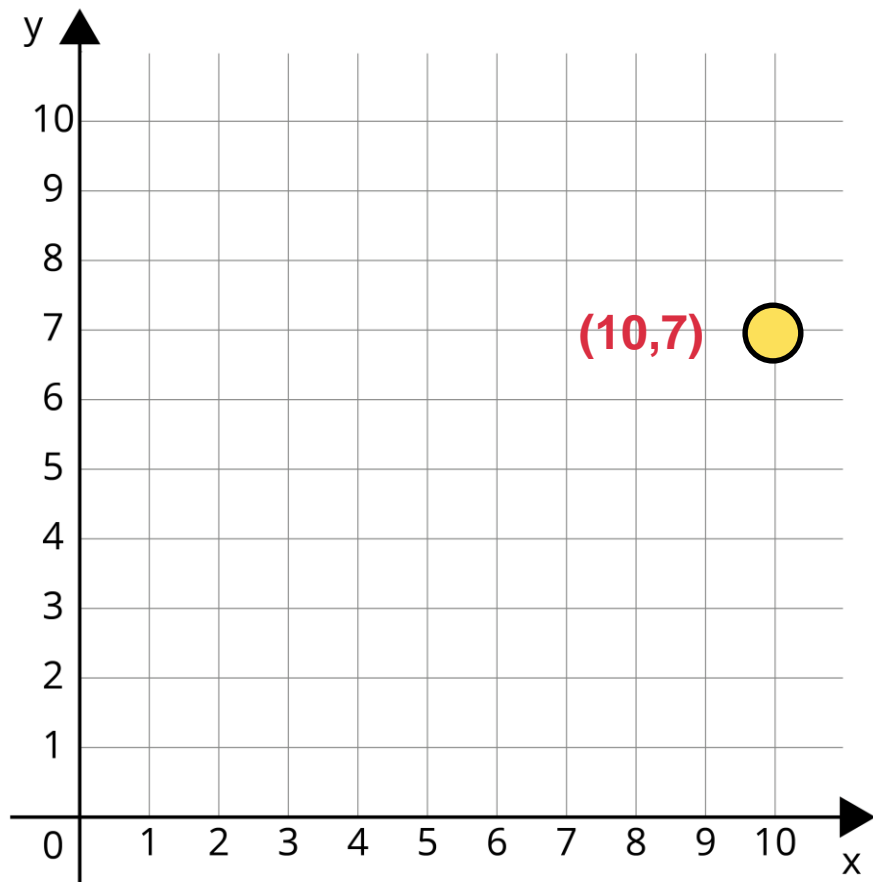
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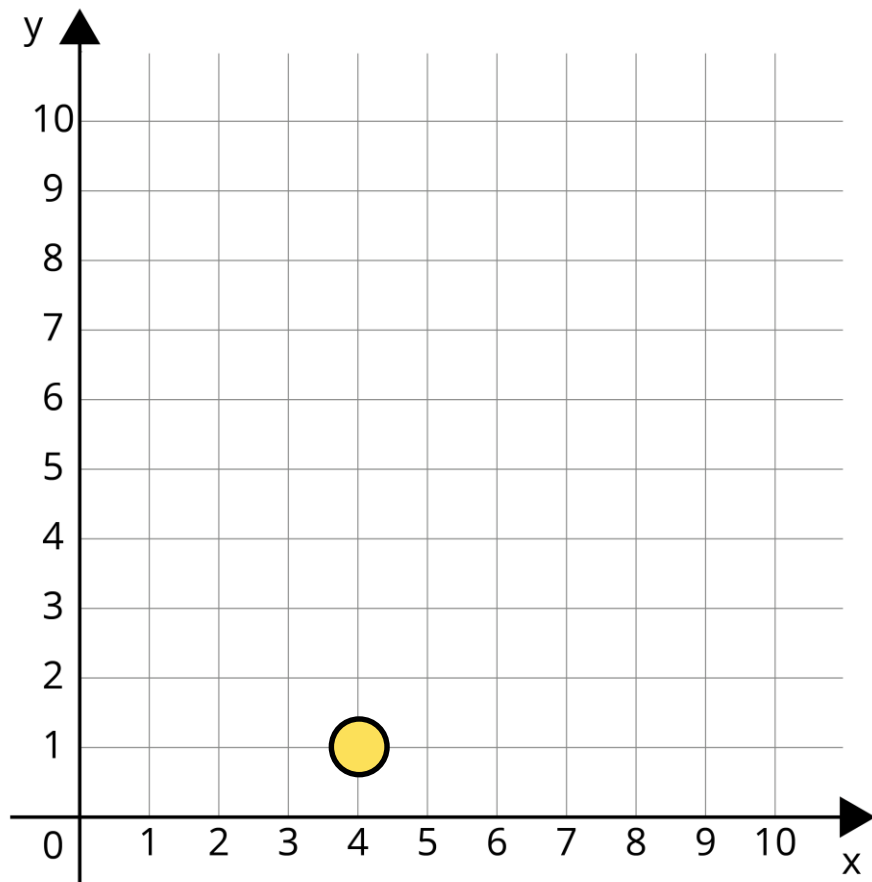
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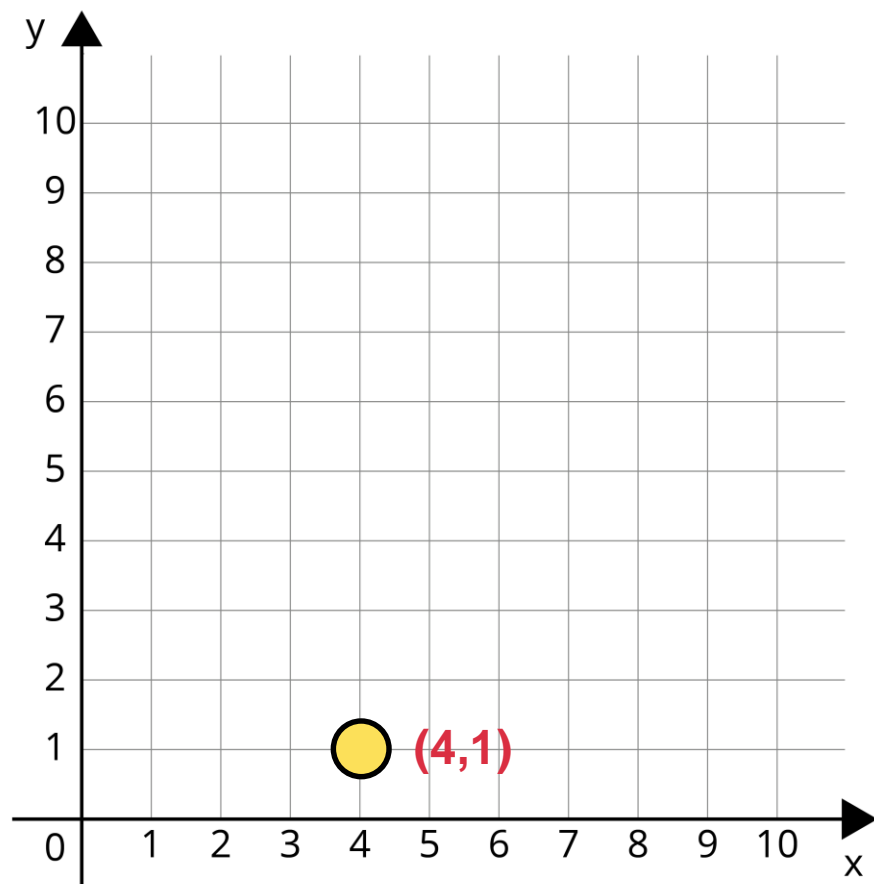
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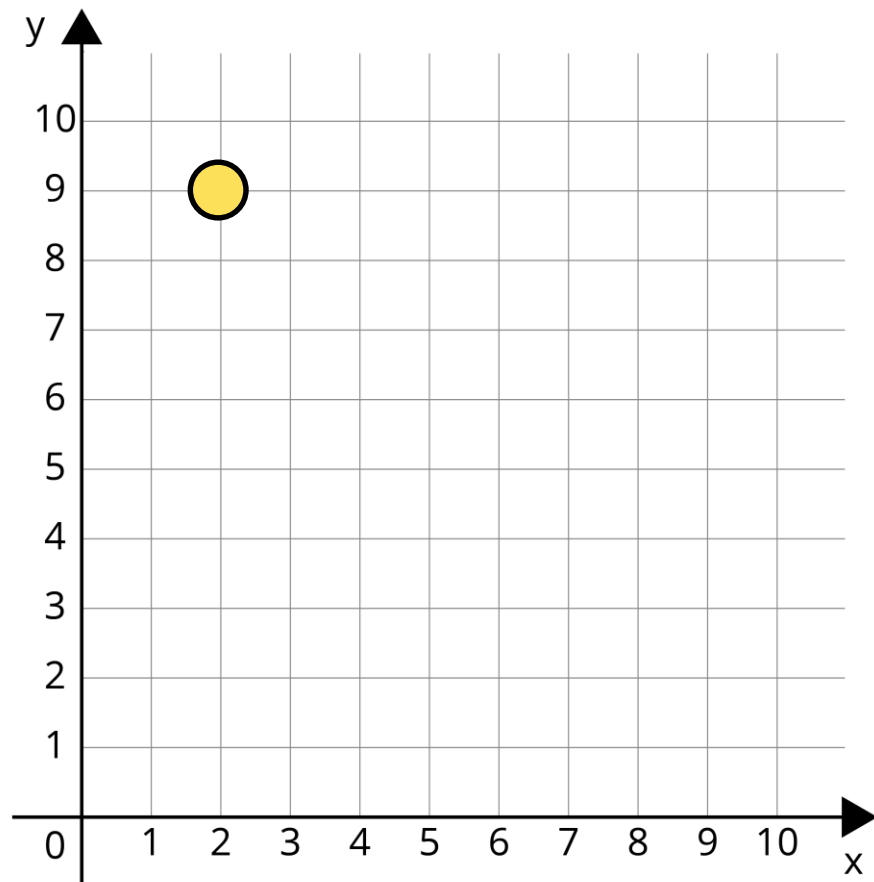
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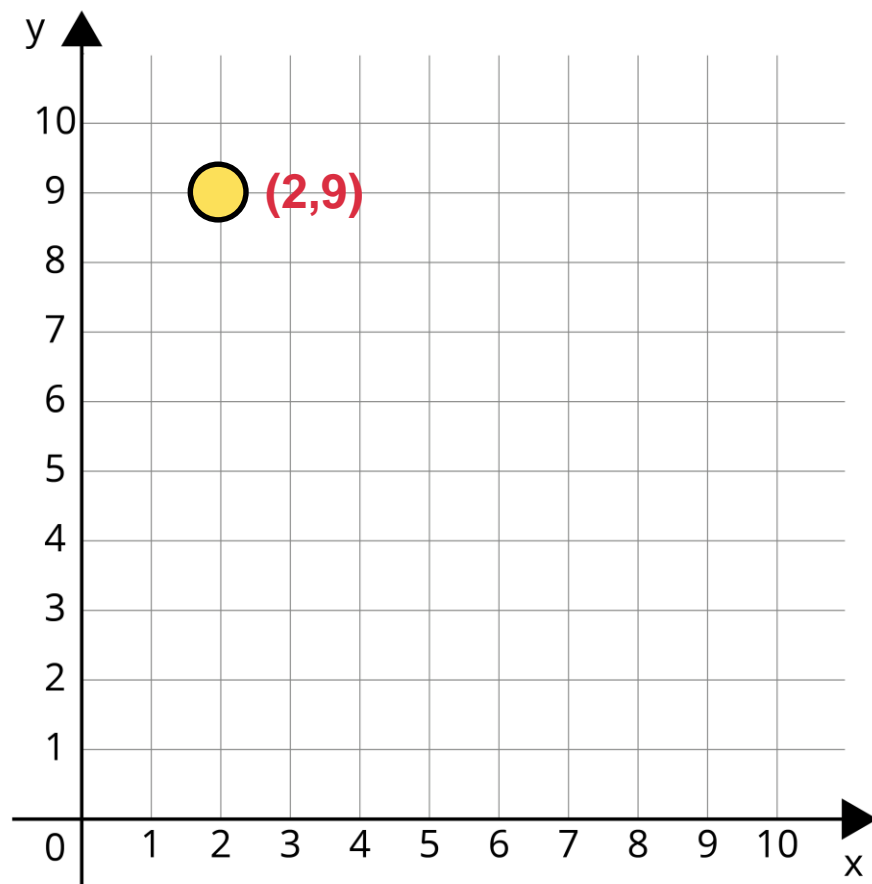
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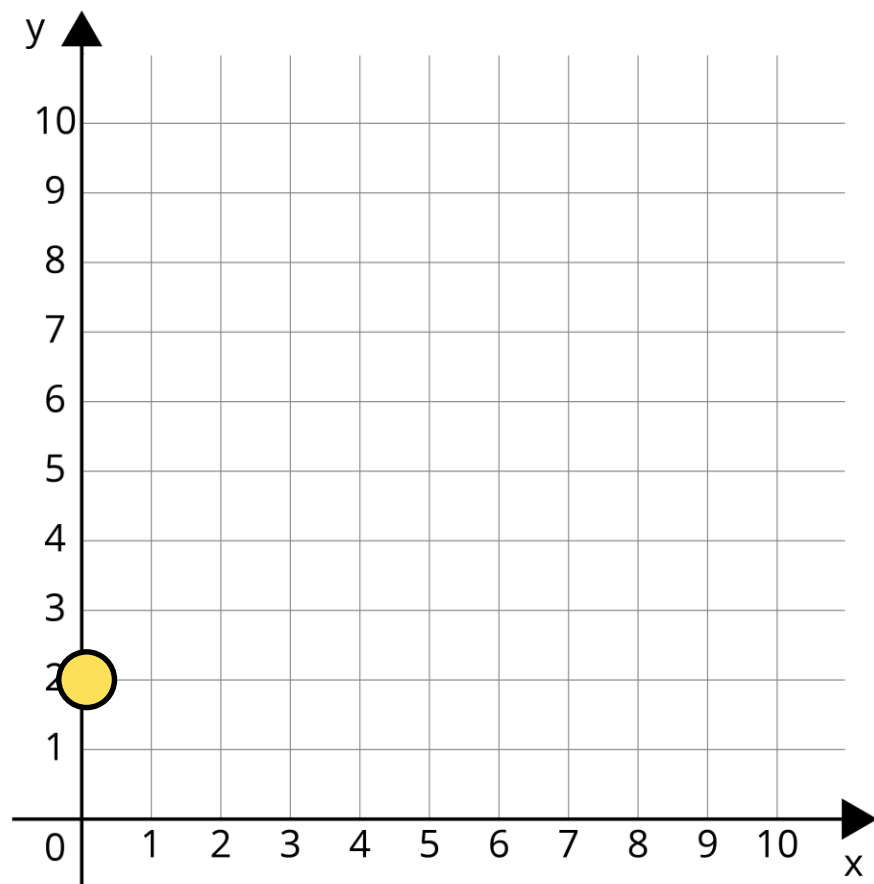
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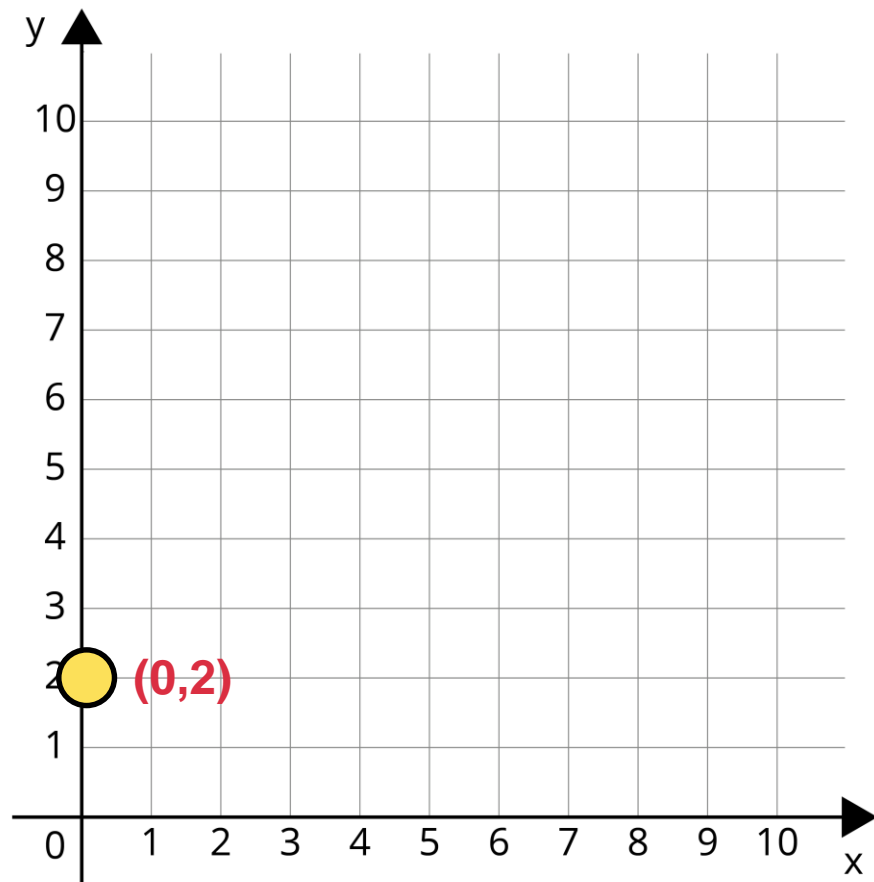
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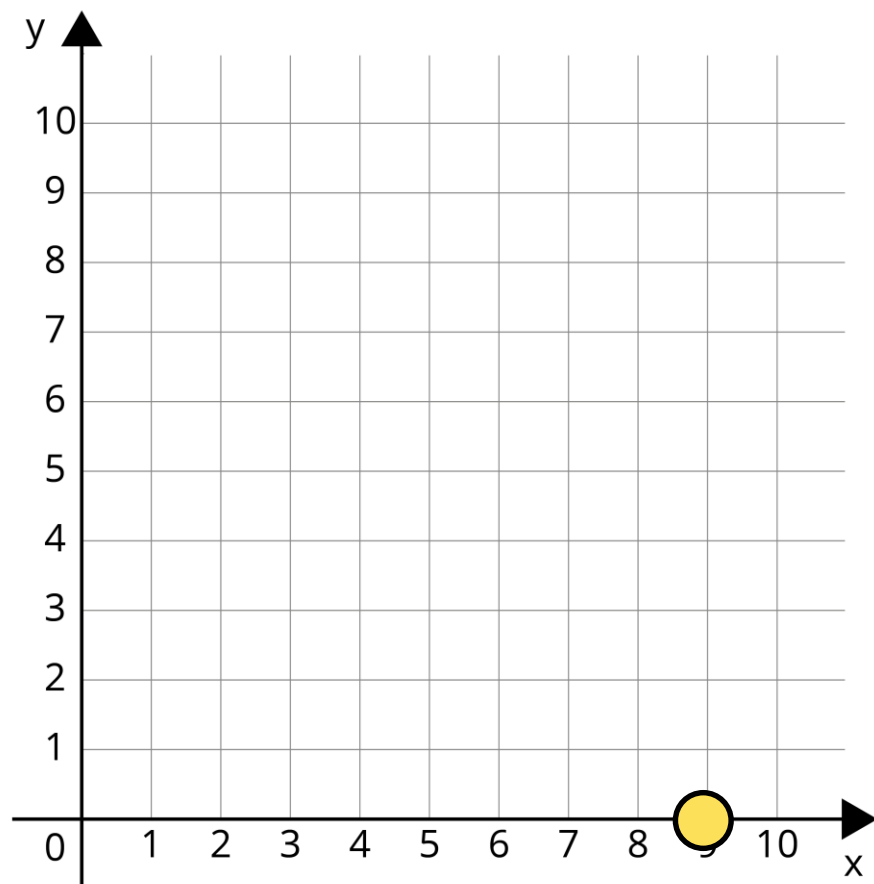
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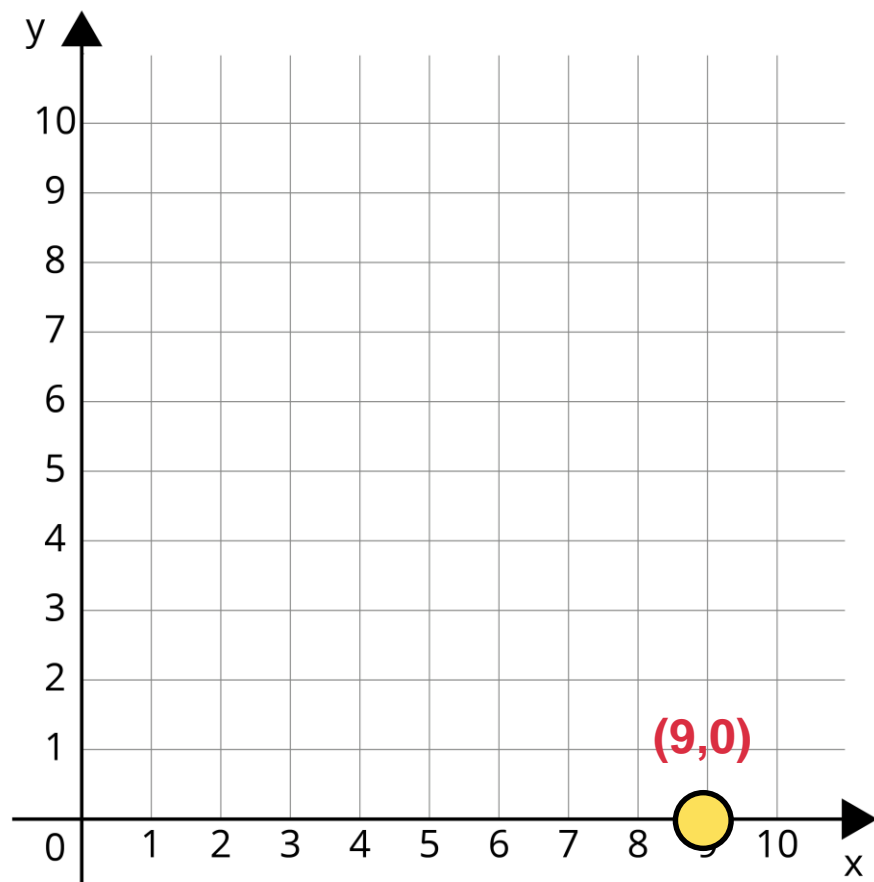
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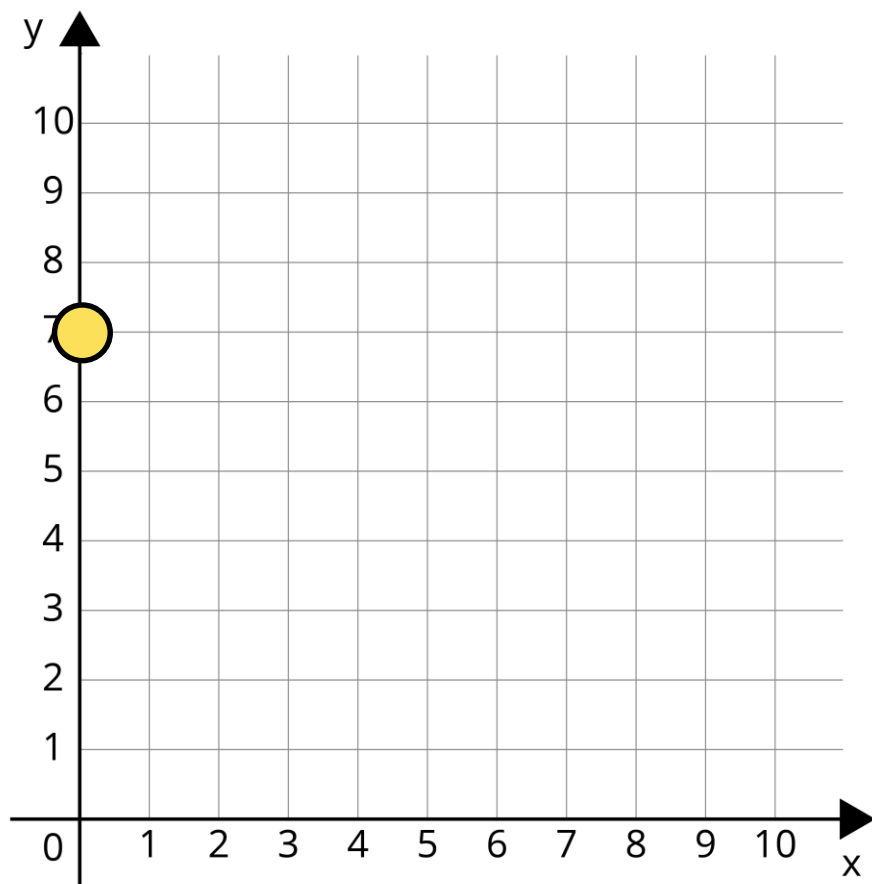
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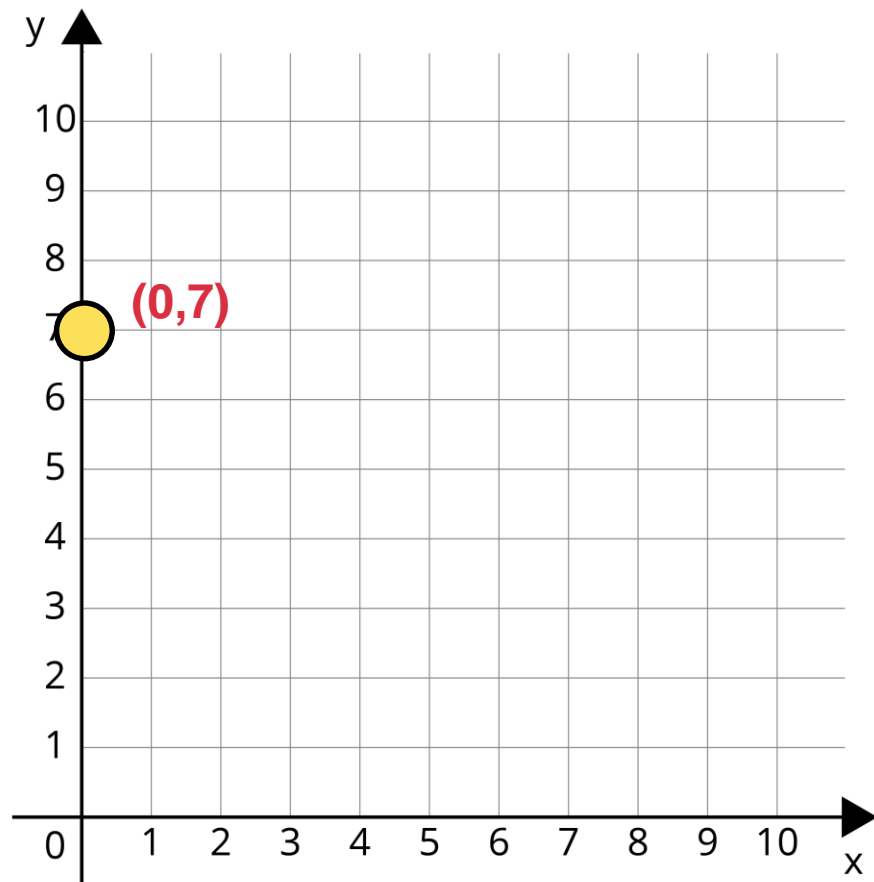
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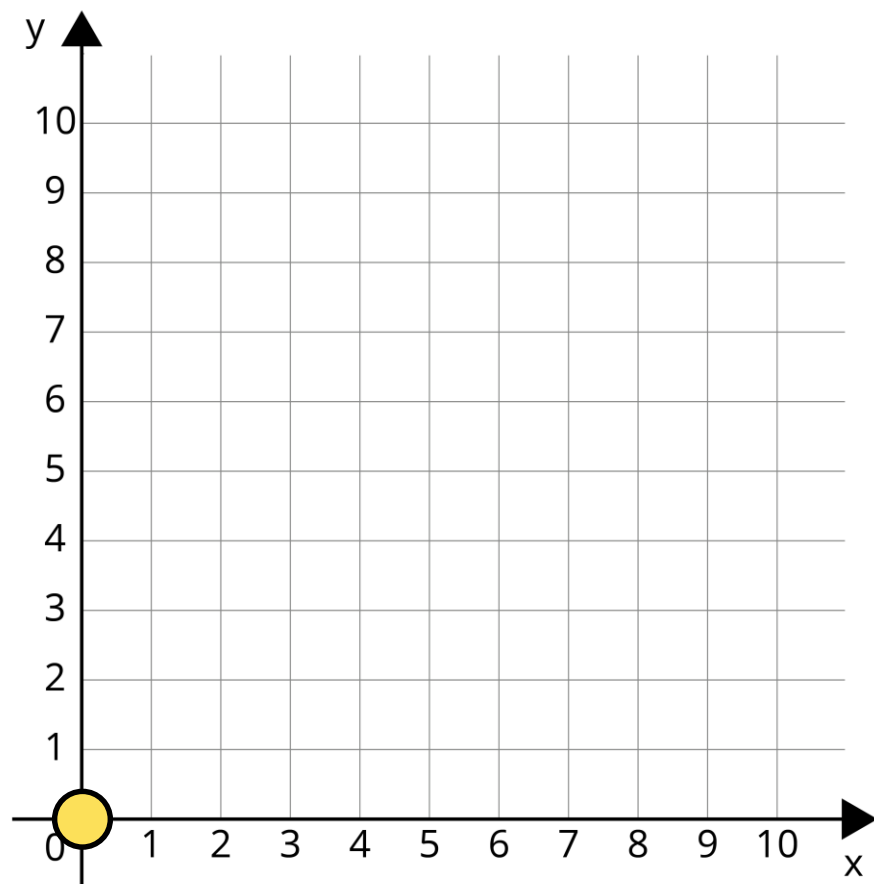
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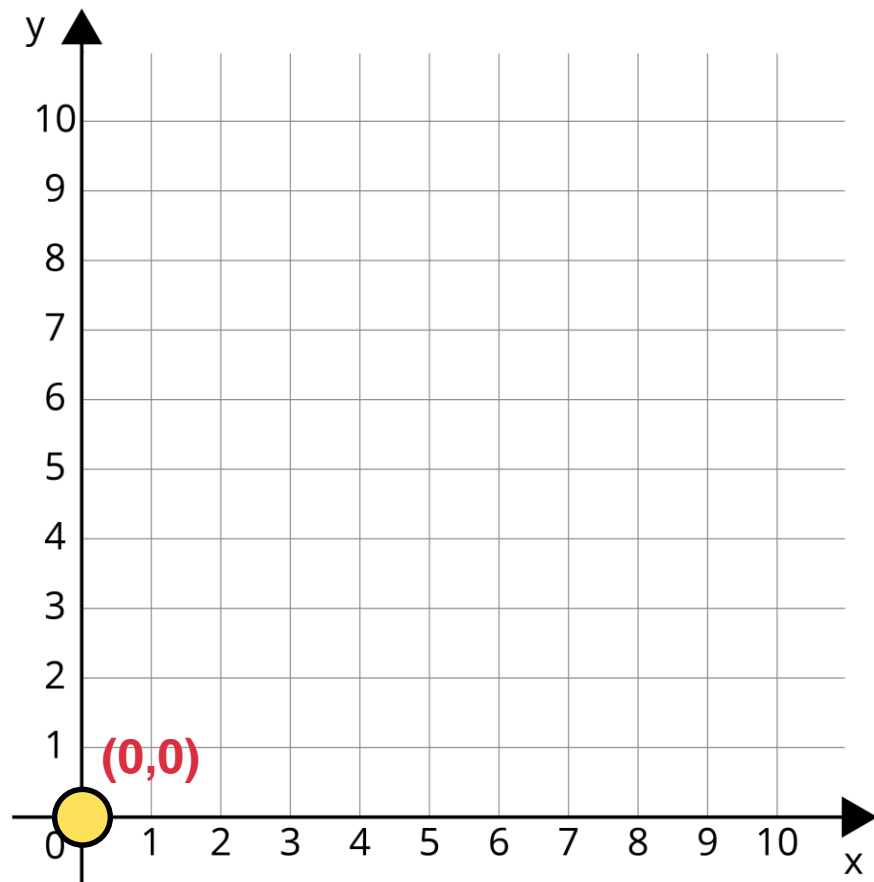
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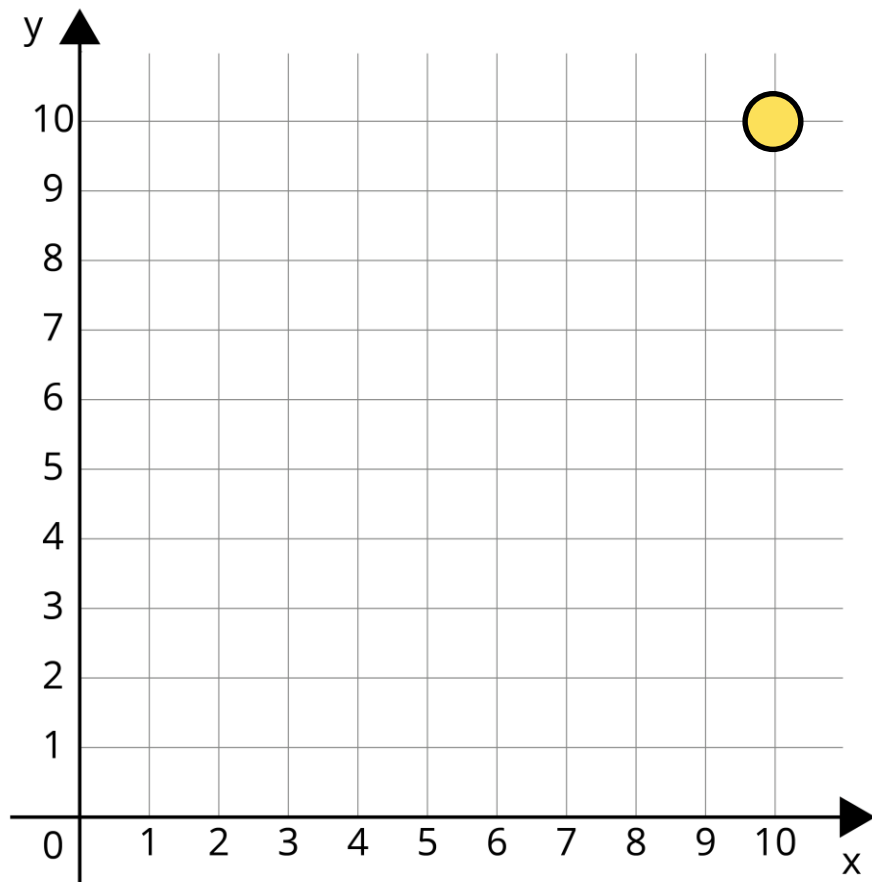
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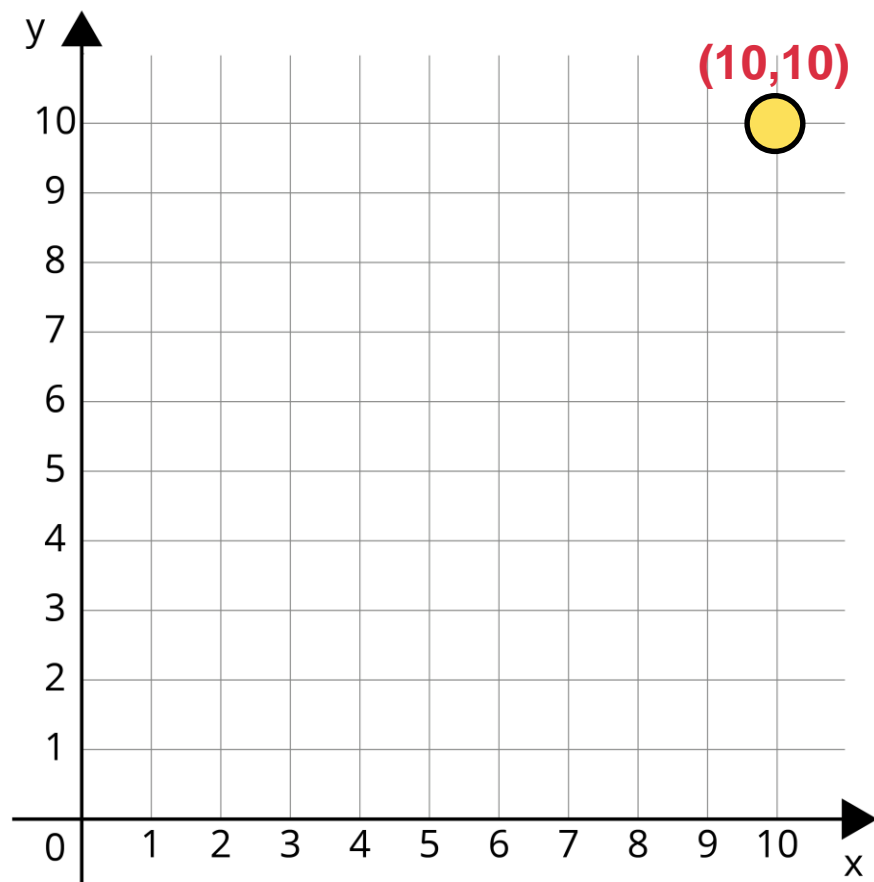
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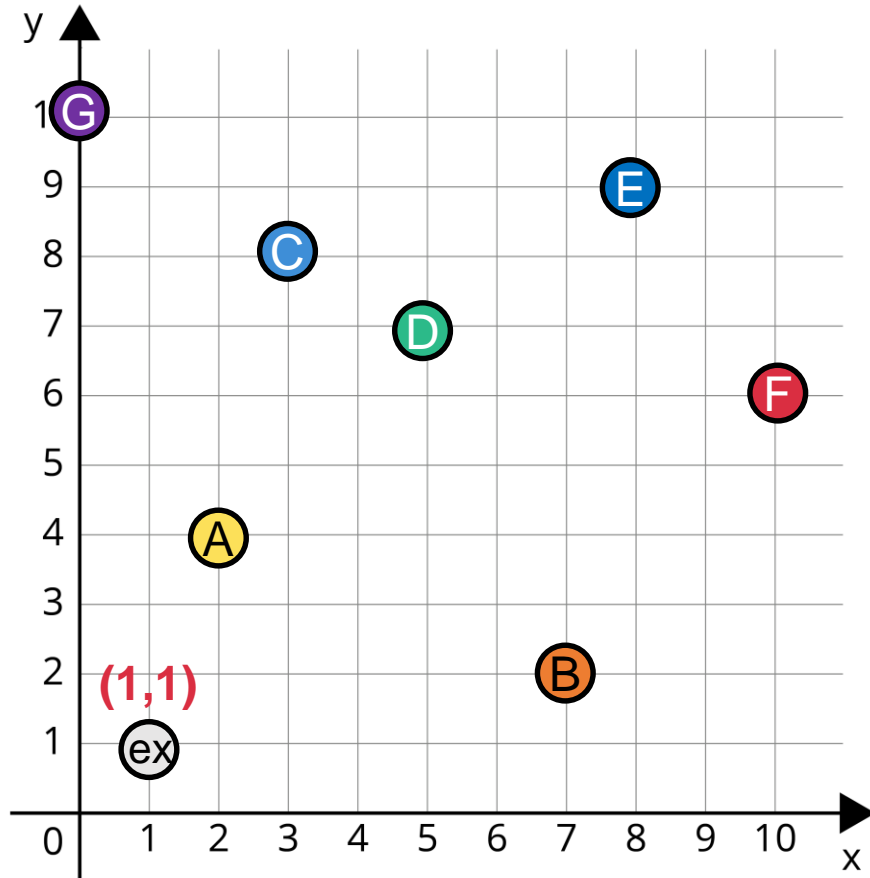
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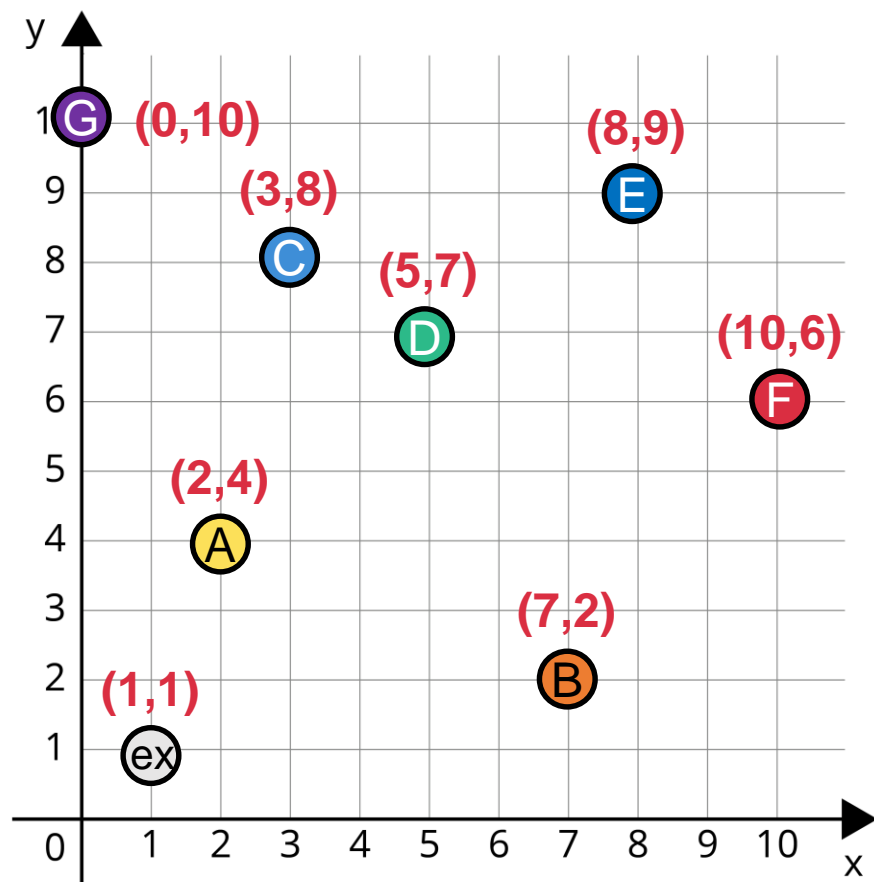
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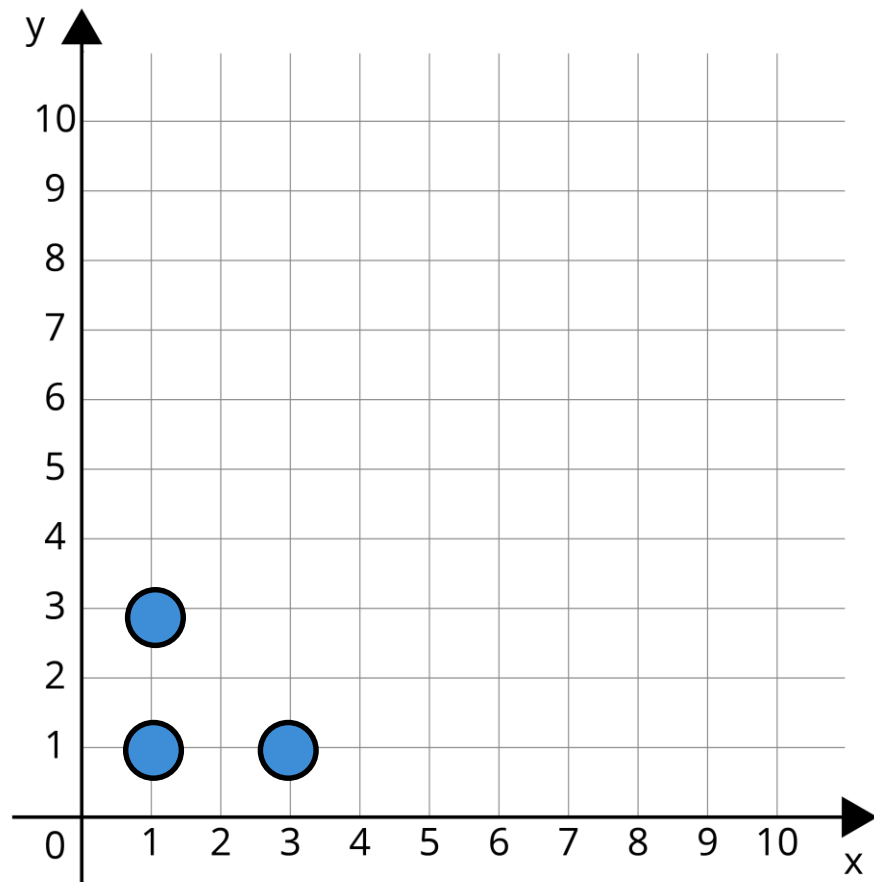
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If I wanted to draw a square, where should the missing dot go?



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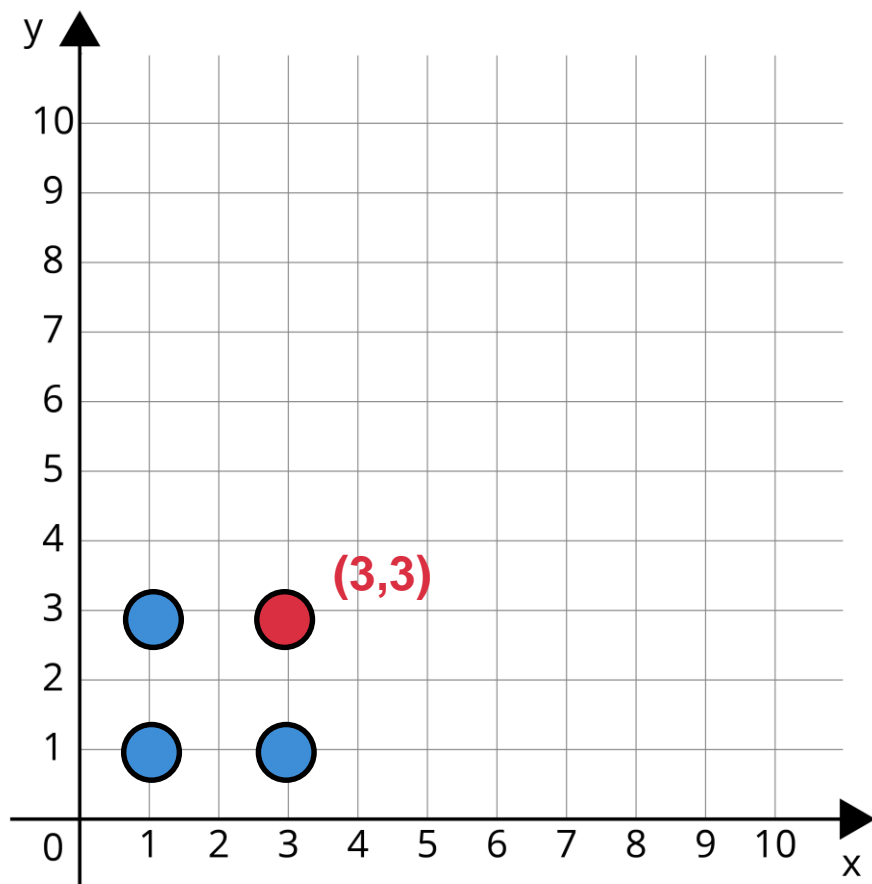
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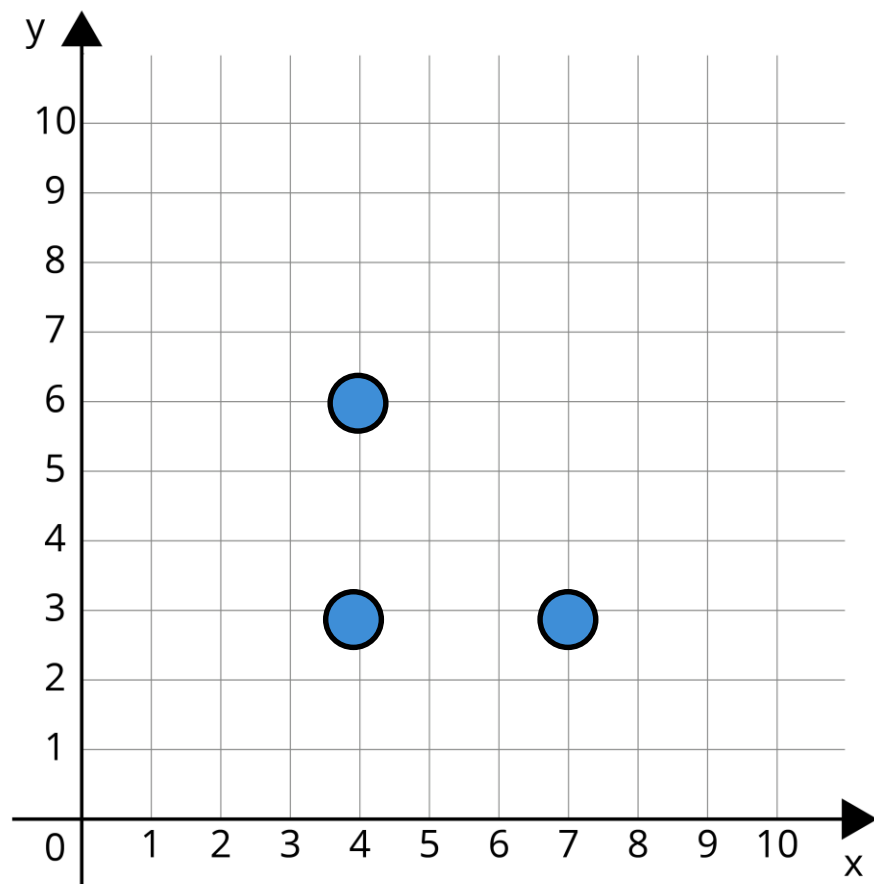
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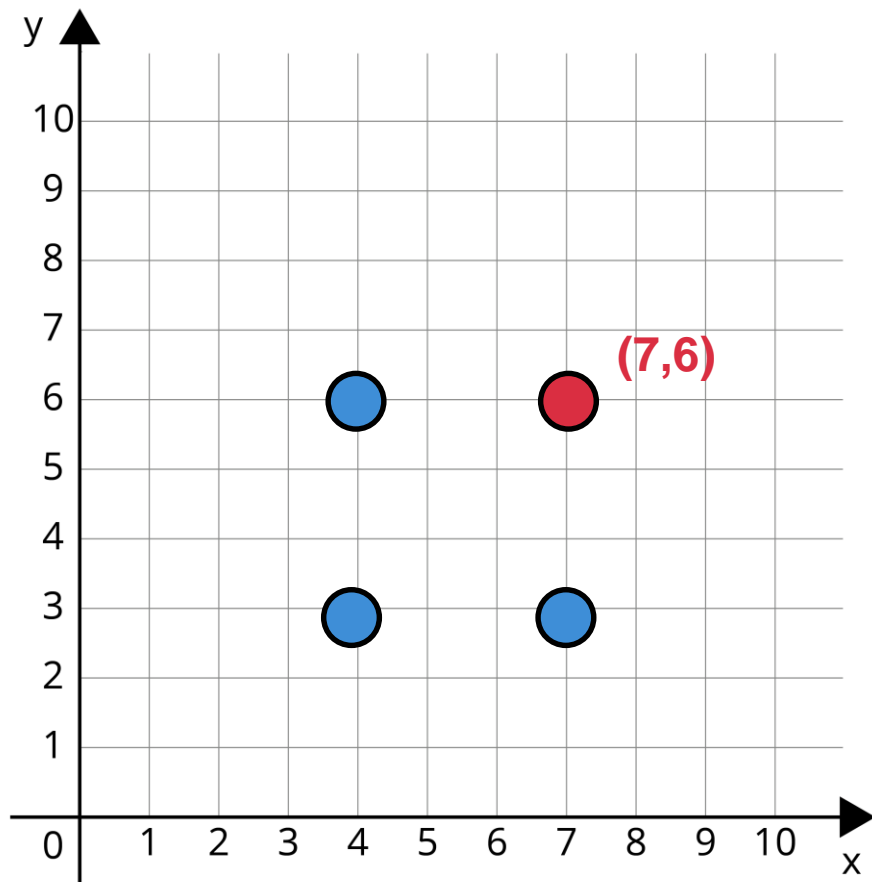
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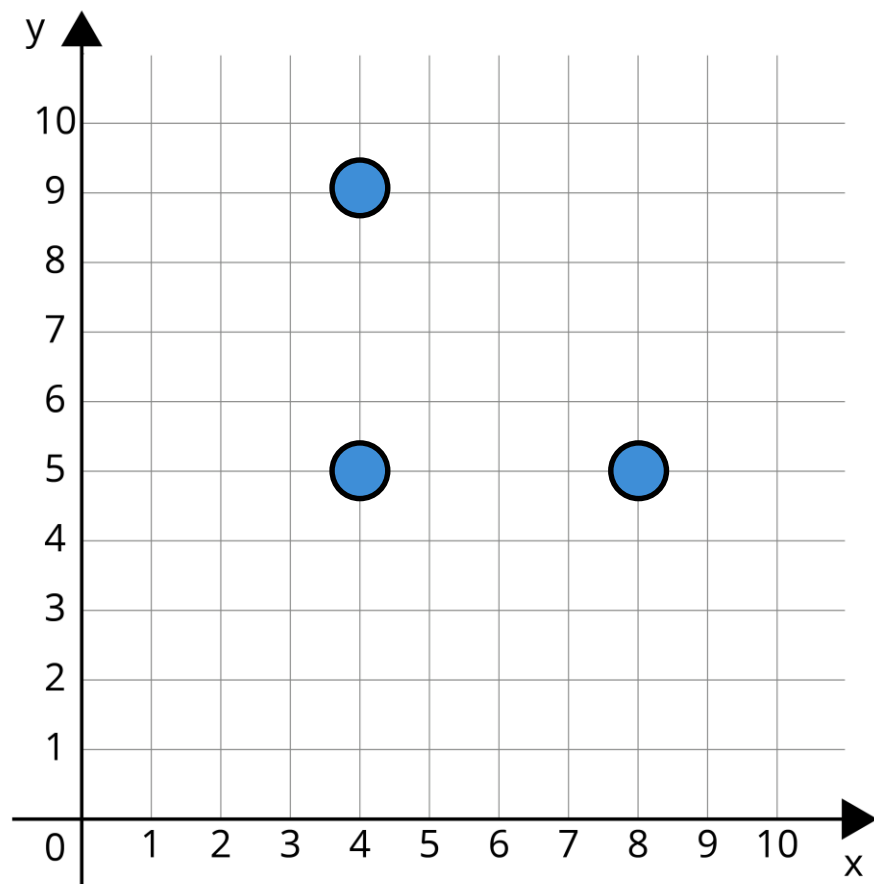
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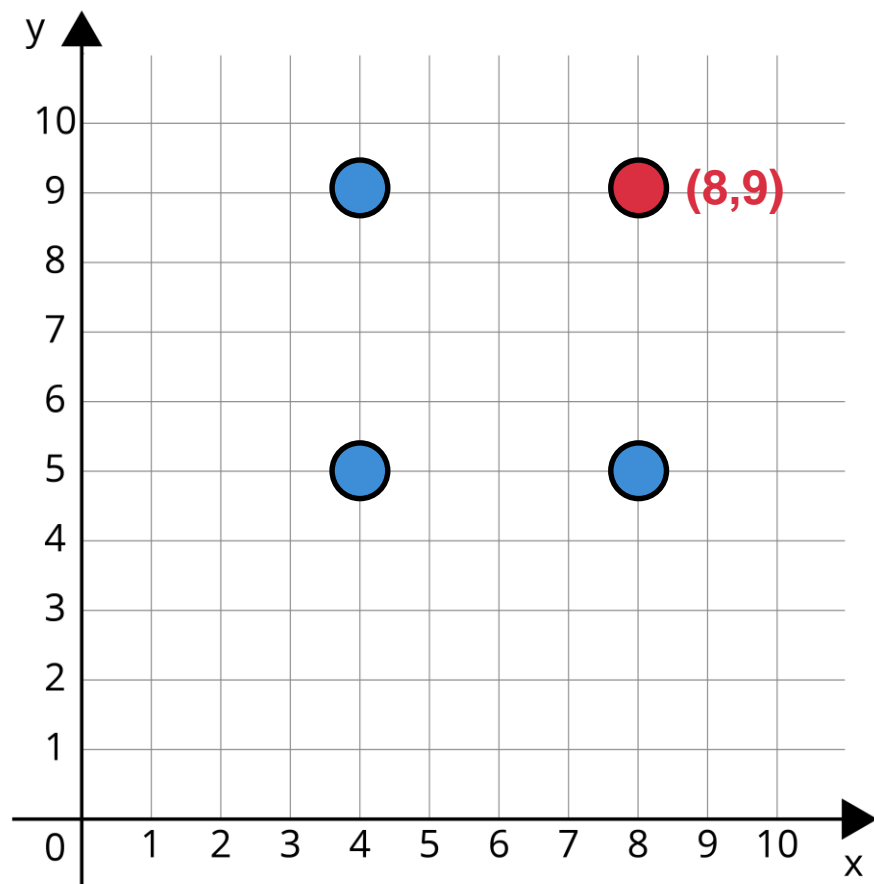
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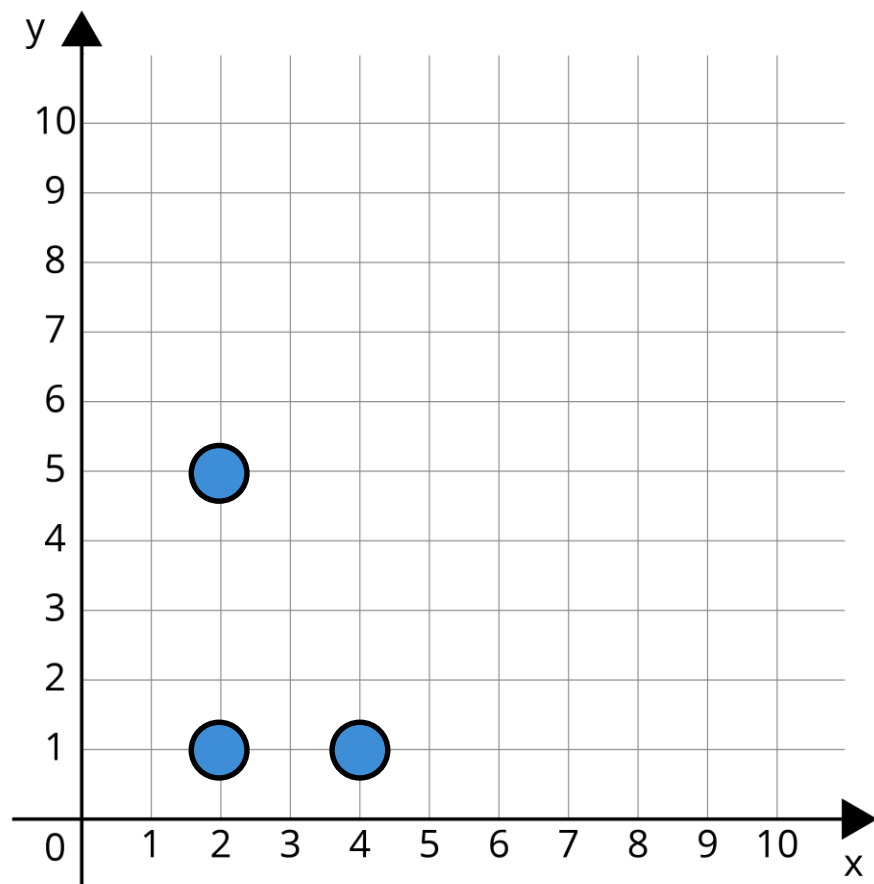
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If I were drawing a rectangle, where should the missing dot go?



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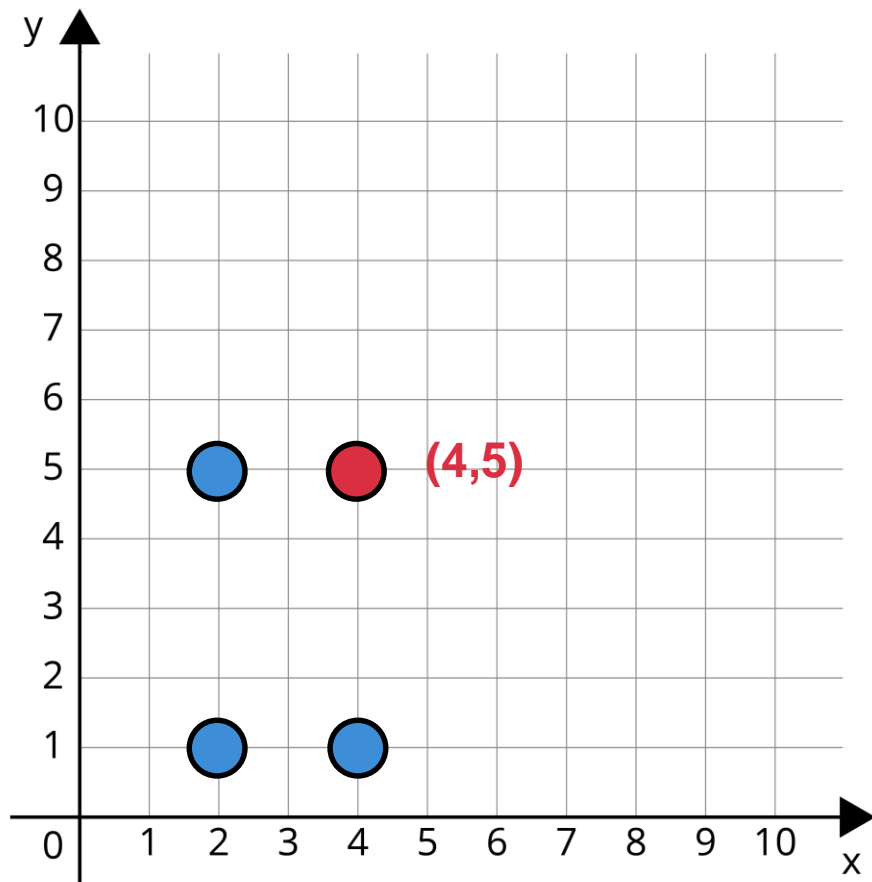
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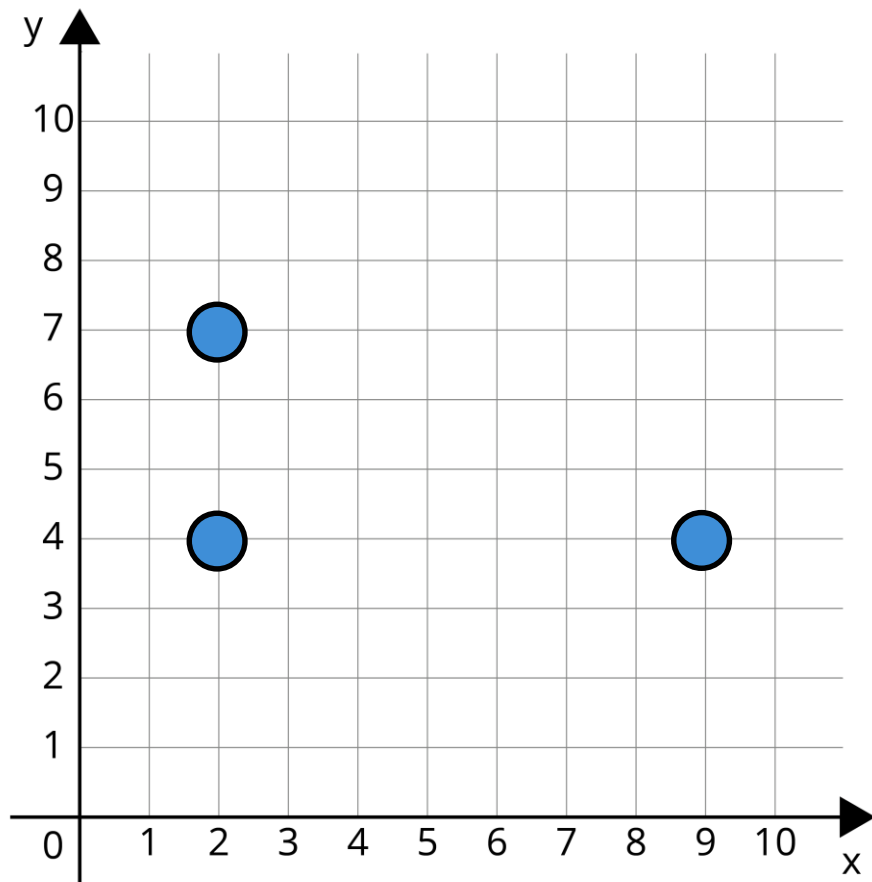
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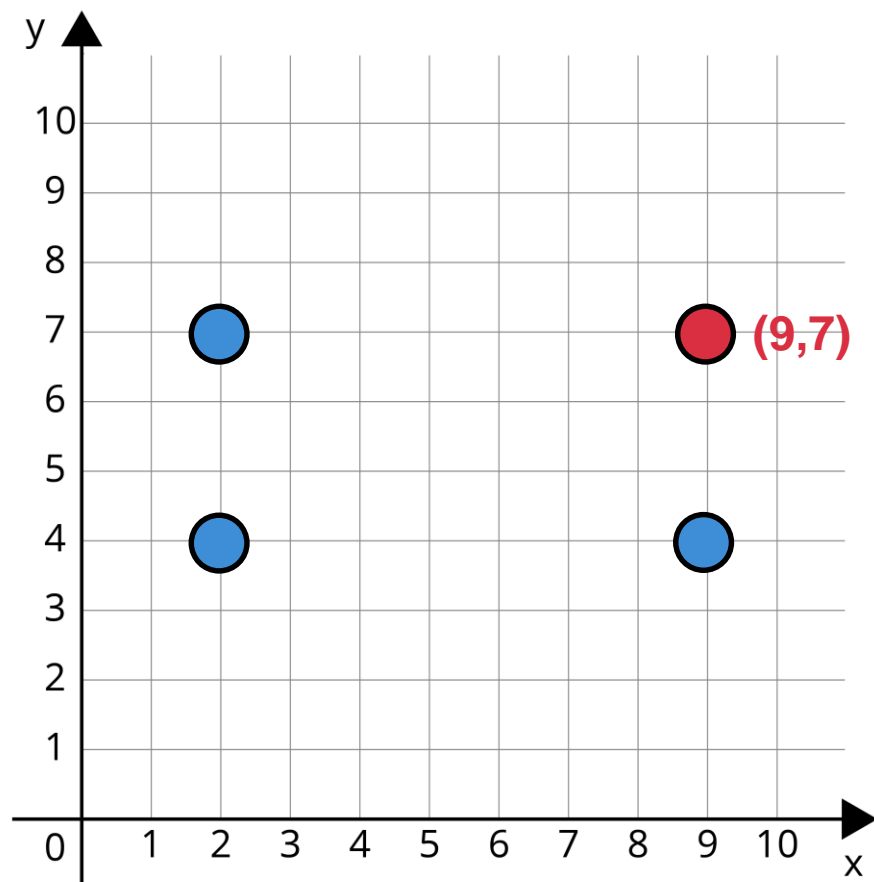
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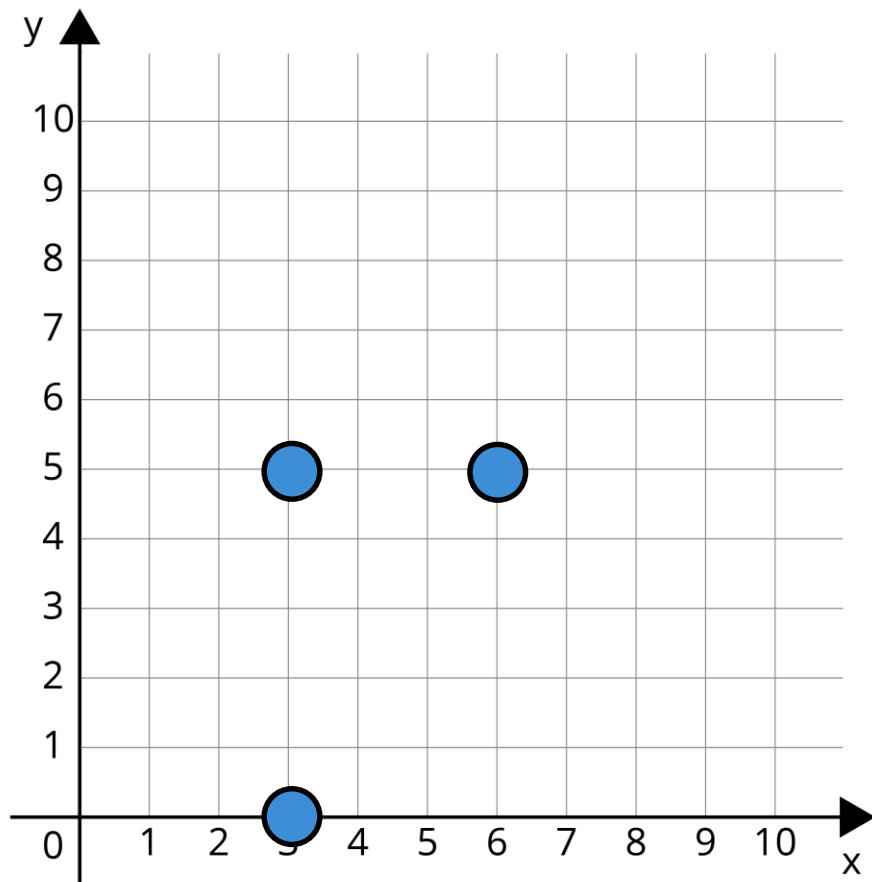
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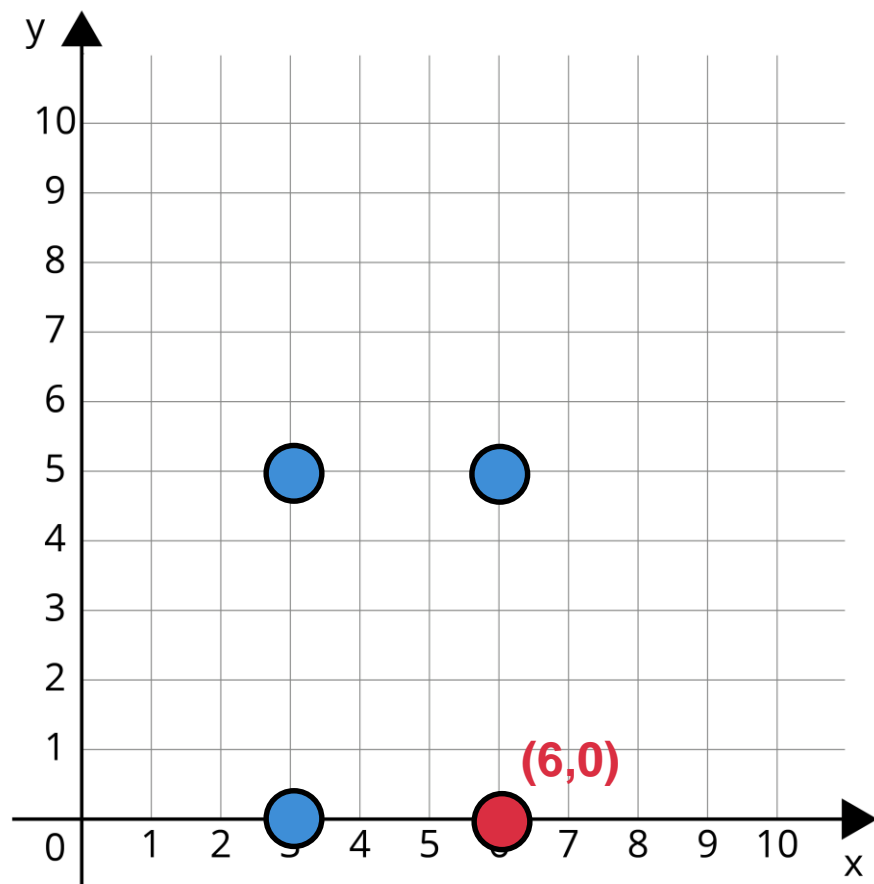
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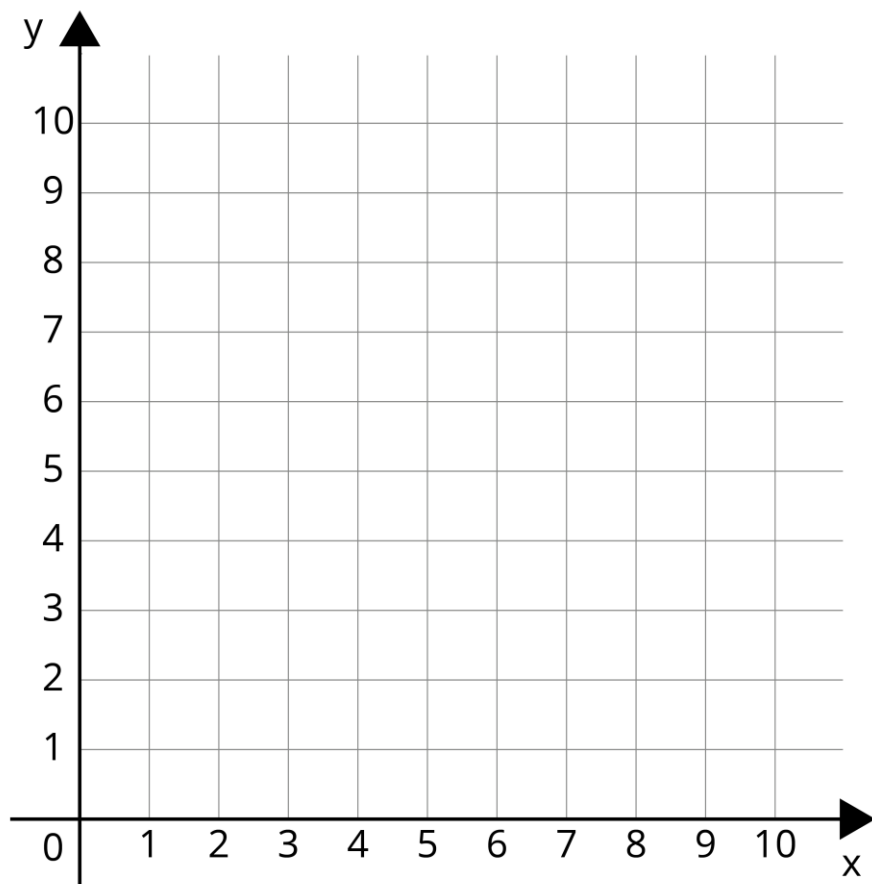
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ACTIVITY 2:

Use the following co-ordinates to draw a polygon:

(5,7), (8,7) and (5,10) – What type of polygon have you drawn?



Success Criteria:

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I can read and plot co-ordinates in the correct order (x axis, then y axis).

Greater Depth:

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Extension:

Plot a polygon with the co-ordinates (1,1), (7,3), (2,3), (6,1).

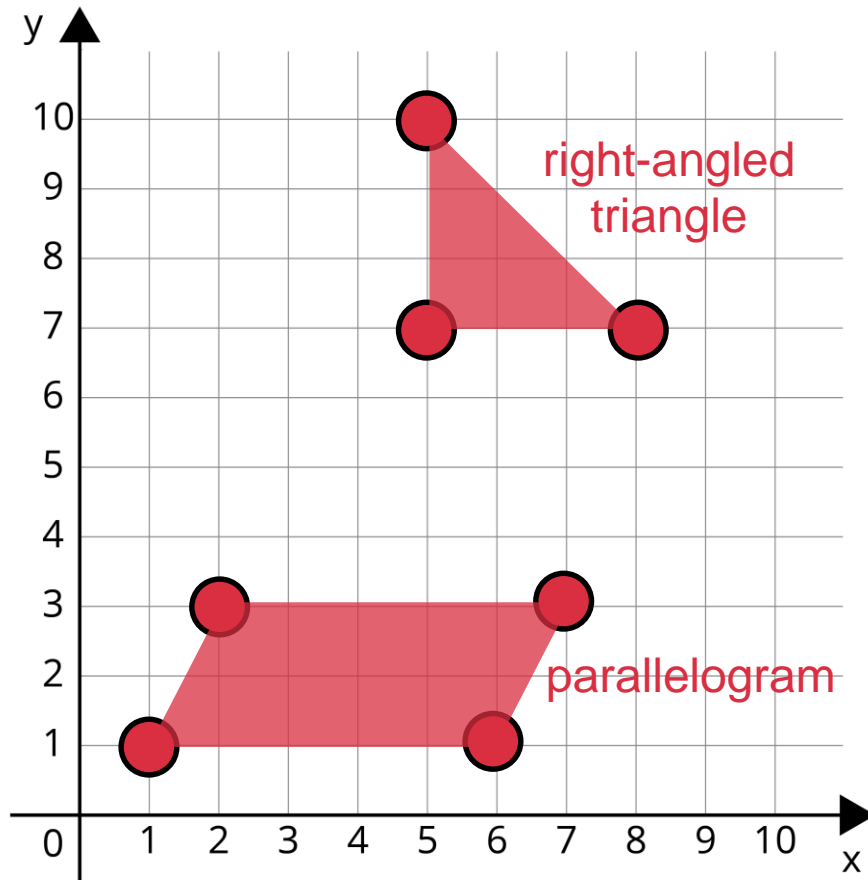
What type of polygon have you drawn?

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What type of polygon have you drawn?

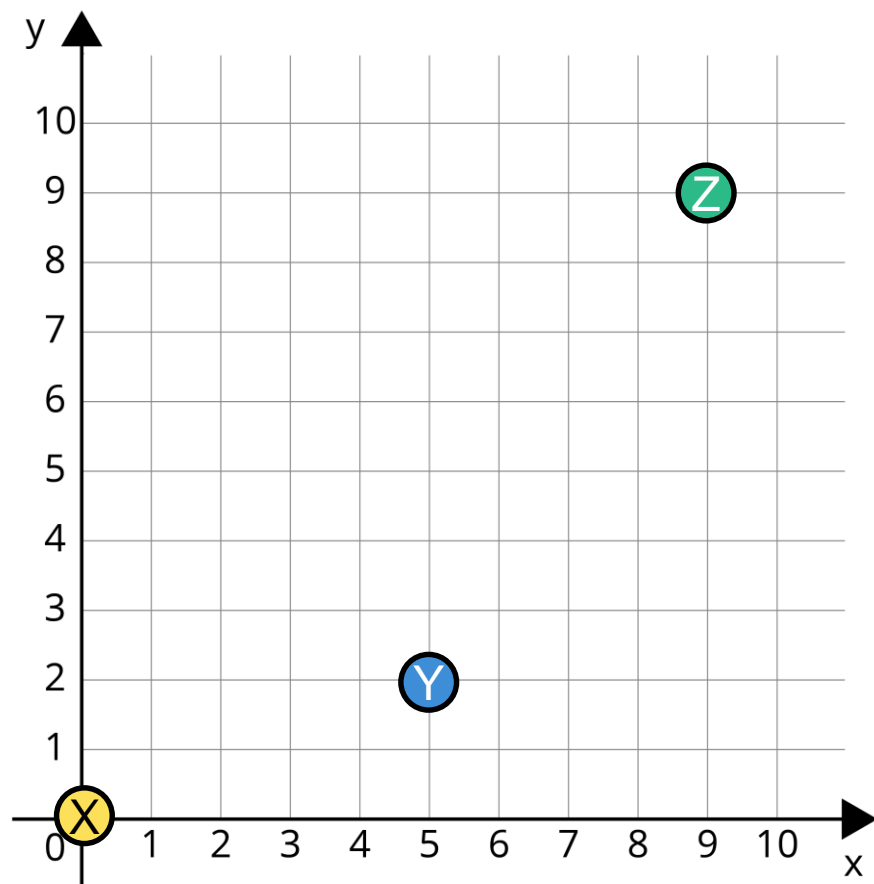
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ACTIVITY 3:

Ellie has written the co-ordinates for points X, Y and Z:

X (0,1), Y (2,5) and Z (10,10).

Mark Ellie's work and correct any mistakes.



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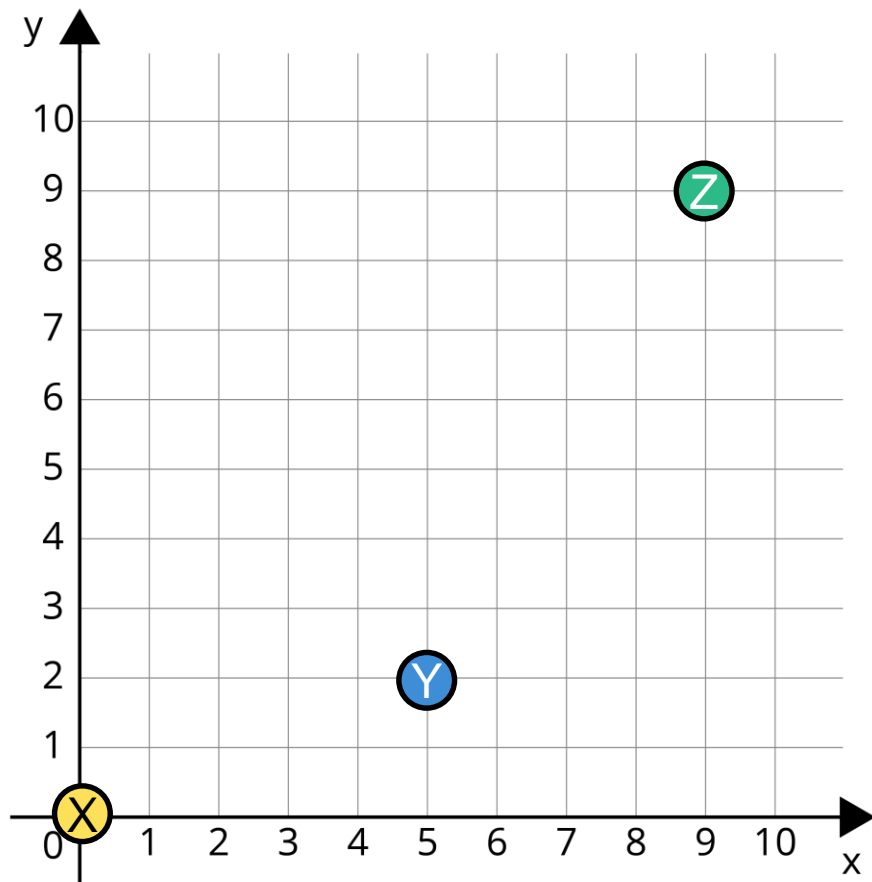
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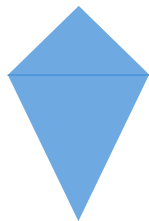
- Ellie has misread Point X along the y-axis, it is (0,0);
- She has read Point Y in the wrong order – it should be (5,2);
- She has misread Point Z by one co-ordinate for each axis, it is (10,10) not (9,9).

To be able to read and plot co-ordinates in the first quadrant

EVALUATION:

Connor is drawing a kite.

He wants his final shape to look like this:



Connor uses the following co-ordinates:

$(4,2)$, $(2,6)$, $(3,8)$, $(6,6)$

Will he draw the kite he has planned to?

If not, can you correct his co-ordinates?

Answer. Prove. Explain.

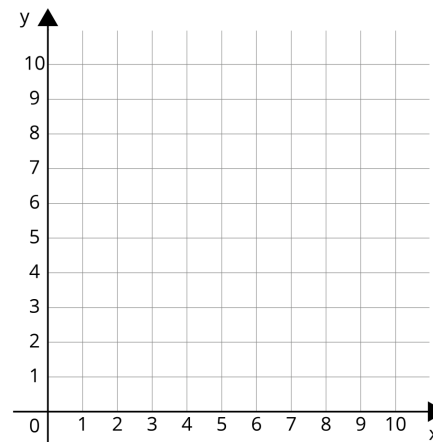
Success Criteria:

Mastery:

I can read and plot co-ordinates in the correct order (x axis, then y axis).

Greater Depth:

I can apply reasoning to explain my knowledge of plotting co-ordinates in the correct order (x axis, then y axis).

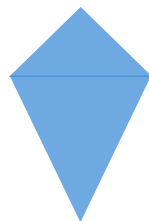


To be able to read and plot co-ordinates in the first quadrant

EVALUATION:

Connor is drawing a kite.

He wants his final shape to look like this:



Connor uses the following co-ordinates:

$(4,2)$, $(2,6)$, $(3,8)$, $(6,6)$

He will not draw the kite he wants to...
He needs to change the co-ordinate $(3,8)$ to $(4,8)$ to draw the kite accurately.

Success Criteria:

Mastery:

I can read and plot co-ordinates in the correct order (x axis, then y axis).

Greater Depth:

I can apply reasoning to explain my knowledge of plotting co-ordinates in the correct order (x axis, then y axis).

