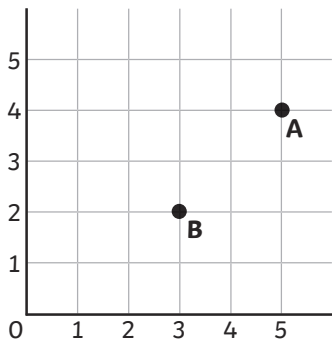


- 1) Pascal wants to plot the coordinate (3,5) but is unsure how to do it. Write an explanation for Pascal to help him learn how to plot and read coordinates. Remember to use mathematical vocabulary.



- 2) Jenni has started to plot the vertices of a square. What are the coordinates of the vertices she has plotted?



Vertex A (,)

Vertex B (,)

Now plot the other two vertices, label them C and D and record the coordinates.

Vertex C (,)

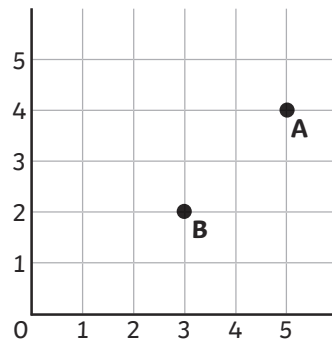
Vertex D (,)

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Vertex B (,)

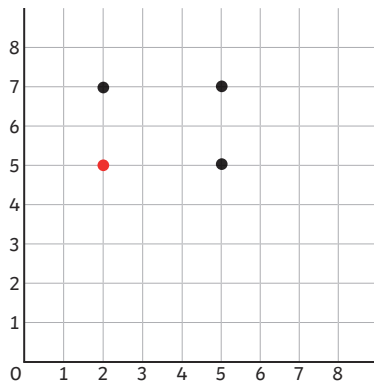
Now plot the other two vertices, label them C and D and record the coordinates.

Vertex C (,)

Vertex D (,)

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- 1) Taylor and Samira have put a red dot on the grid to plot the final vertex of a rectangle.



Taylor

The coordinates of the vertex we have plotted is (5,2)



Samira

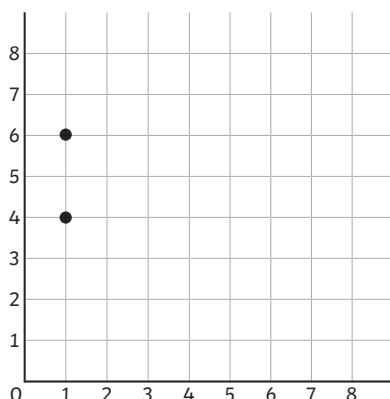
The coordinates of the vertex we have plotted is (2,5)

Who do you agree with? Circle Taylor or Samira. Explain the mistake that the other person has made.

- 2) Philip has plotted two vertices of a right-angled triangle. Complete the following sentences about the third vertex:

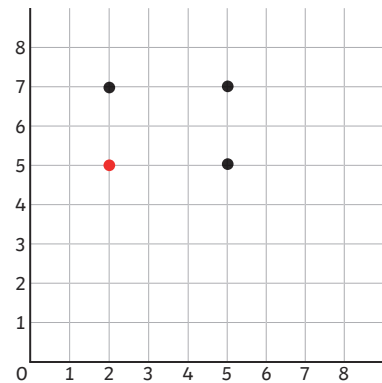
- a) The third vertex could be (,)
b) The third vertex can't be (,)

In your book, explain your answer to 2b.



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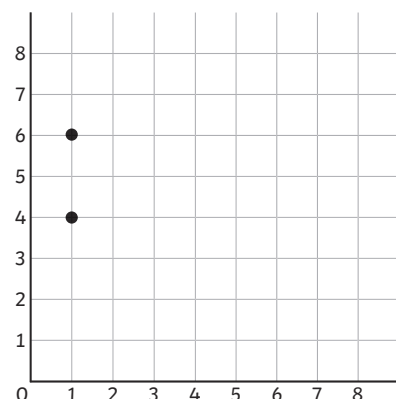
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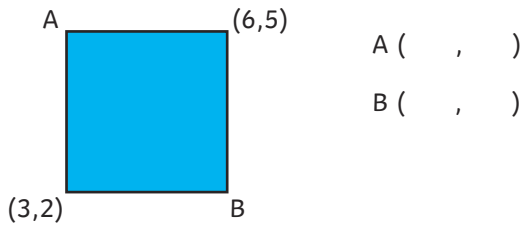
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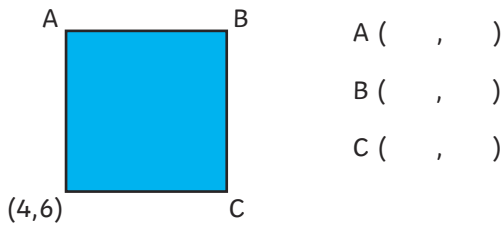


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- 1) Sean has drawn a square in the first quadrant but has now hidden the x and y axes. Using the coordinates given, can you work out the missing coordinates?



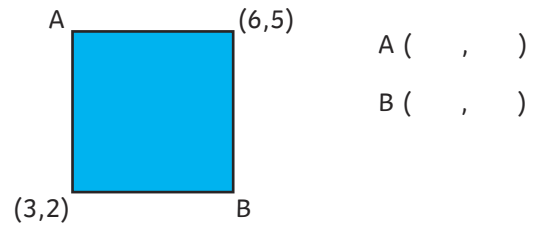
- 2) The **same square** has now been moved to a different place on the first quadrant. Sean has given one set of coordinates for one of the vertices. Can you work out the coordinates for the other three vertices?



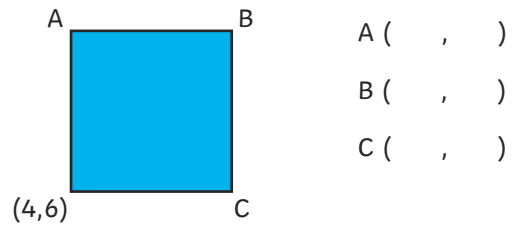
3)

- Draw a 2cm square on a coordinate grid and label the coordinates of each corner. Can you spot a pattern between the coordinates of opposite vertices? If you need a hint, try finding the difference between the x and y coordinates.
- Investigate if the same pattern occurs when you draw 2cm squares in different positions on the grid.
- Predict the patterns you will find in squares of different sizes. Prove it.

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