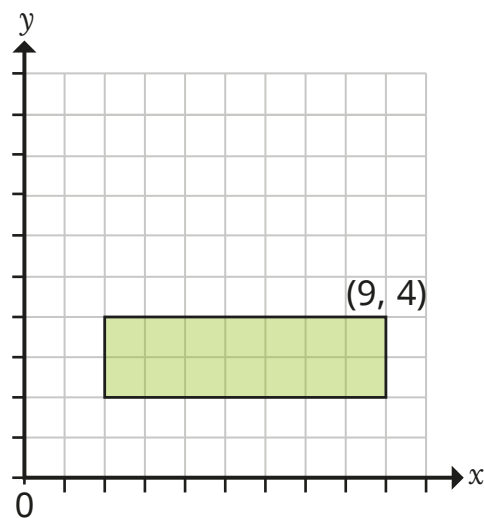


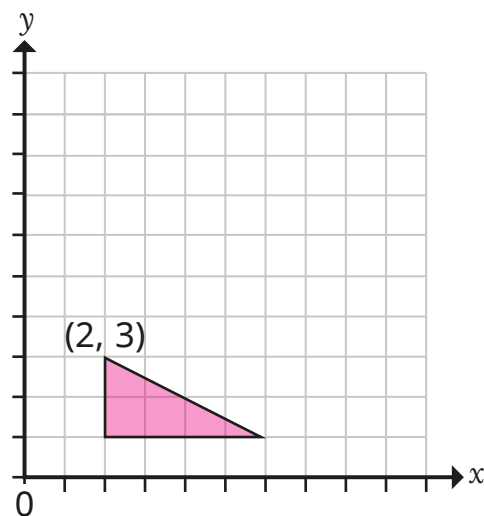
# Problem solving with coordinates

- 1 A rectangle is drawn on the coordinate grid.  
The coordinates of one vertex are labelled.



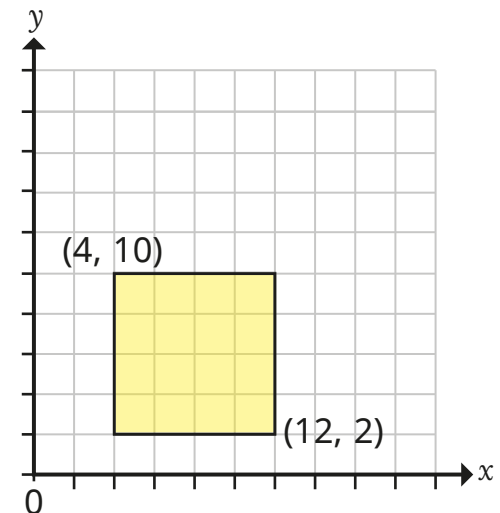
What are the coordinates of the other three vertices?  
Label them on the diagram.

- 2 A right-angled triangle is drawn on the coordinate grid.  
The coordinates of one vertex are labelled.



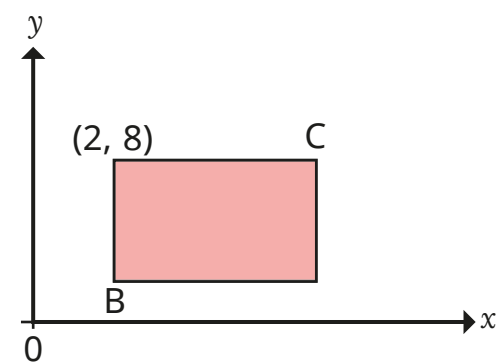
What are the coordinates of the other two vertices?  
Label them on the diagram.

- 3 A square is drawn on the coordinate grid.  
The coordinates of two vertices are labelled.



What are the coordinates of the other two vertices?  
Label them on the diagram.

- 4 A rectangle is drawn on a coordinate grid.  
The coordinates of one vertex are labelled.



- a) Which of these **could** be the coordinates of point B?

Circle your answer.

(8, 6)      (0, 9)      (1, 7)      (2, 1)

How do you know?

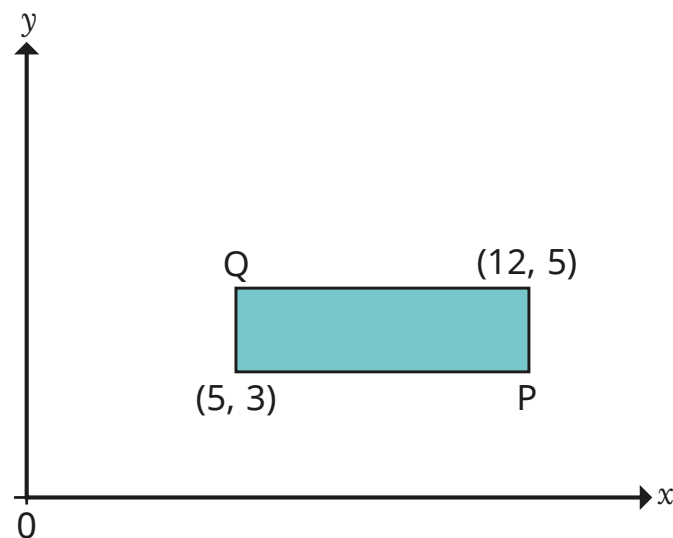
- b) Which of these **could** be the coordinates of point C?

Circle your answer.

(7, 2)      (9, 7)      (8, 8)      (2, 10)

How do you know?

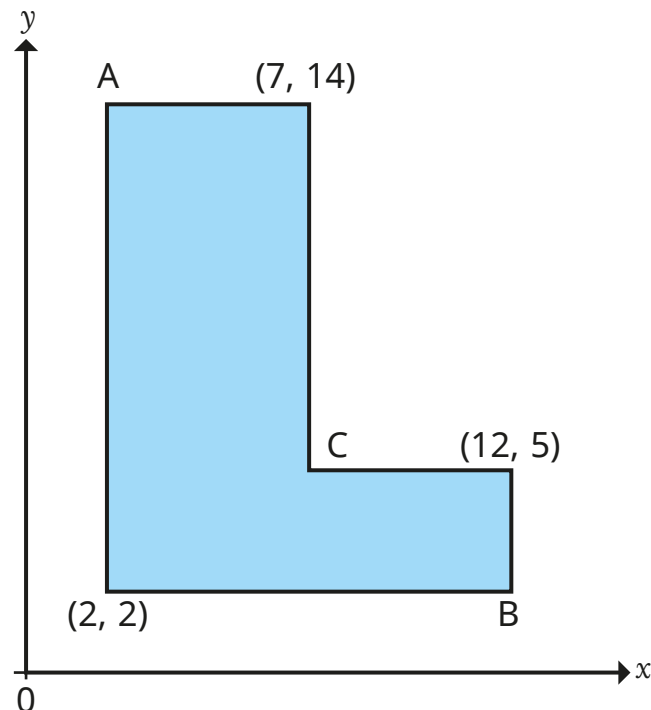
- 5 A rectangle is drawn on a coordinate grid.



What are the coordinates of points P and Q?

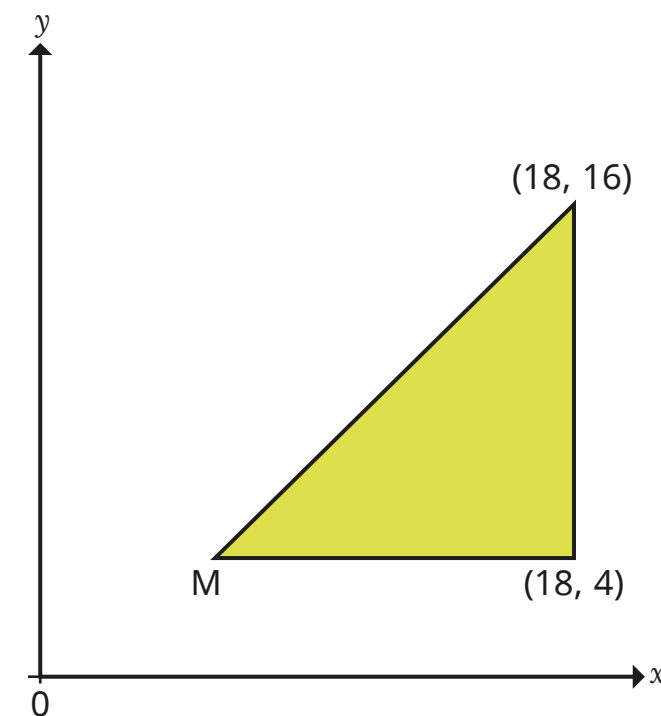
P (  ,  )  
Q (  ,  )

- 6 Work out the coordinates of points A, B and C.



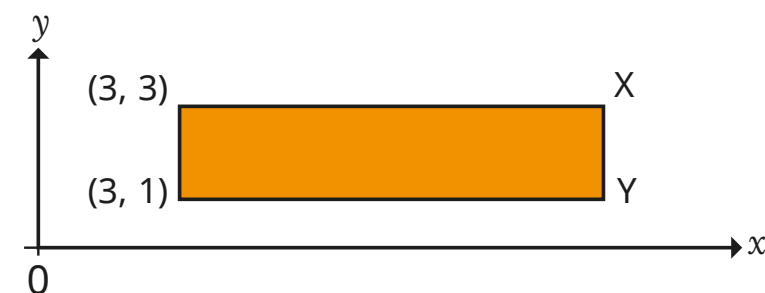
A (  ,  )  
B (  ,  )  
C (  ,  )

- 7 An isosceles right-angled triangle is drawn on the grid.  
Work out the coordinates of point M.



M (  ,  )

- 8 The area of the rectangle is 18 square units.  
Work out the coordinates of points X and Y.



X (  ,  )  
Y (  ,  )