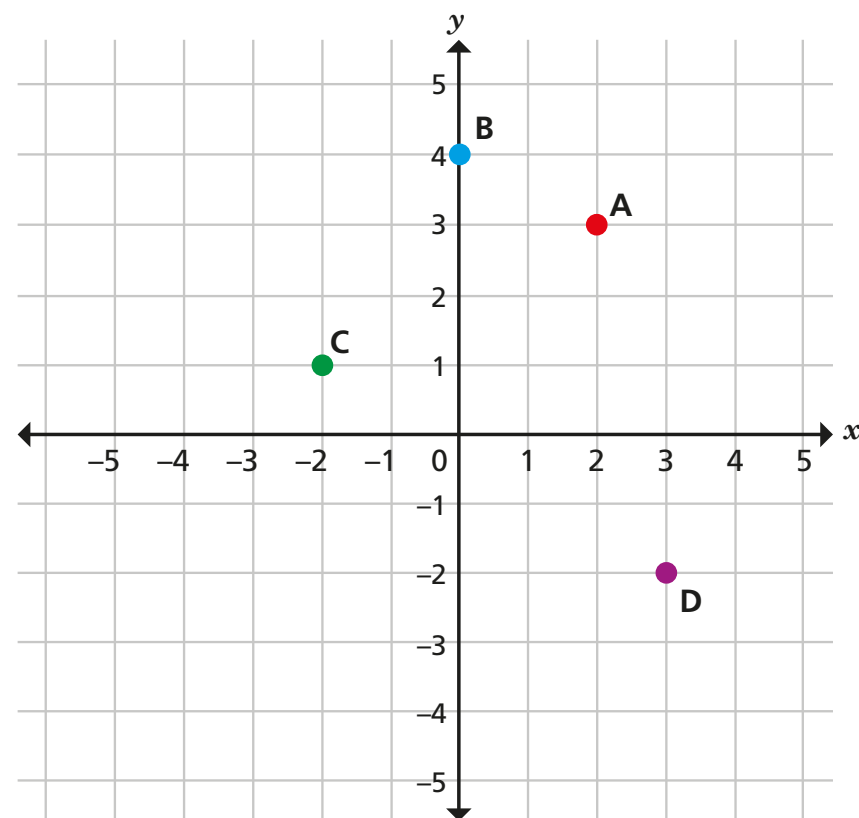


# Work with coordinates in all four quadrants

- 1 Here is a coordinate grid showing the points A, B, C and D.



- a) Write the coordinates of points A, B, C and D.

A ( 2 , 3 )      C ( -2 , 1 )

B ( 0 , 4 )      D ( 3 , -2 )

- b) Which point is in the 2nd quadrant? C

- c) Which point is closest to the origin? C

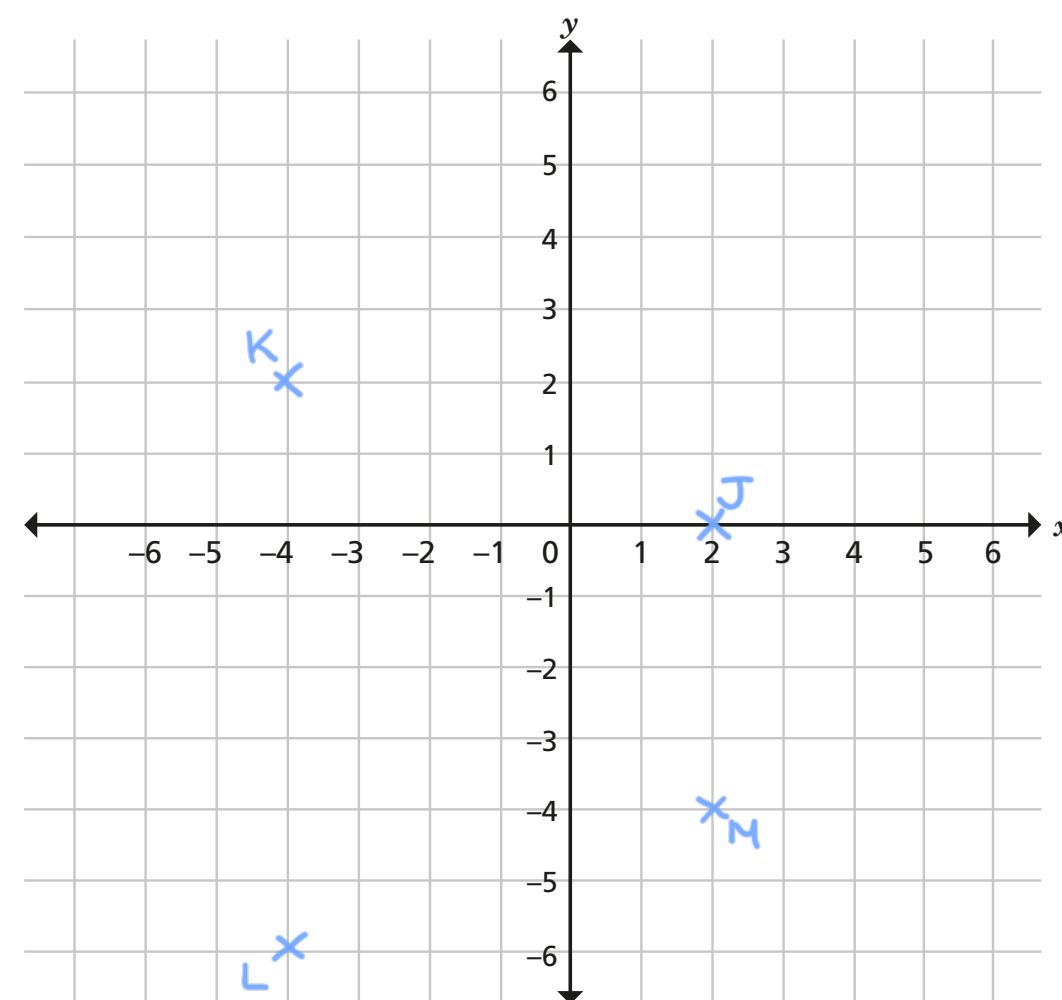
- 2 Which of the following points is not in the same quadrant as the others?

Circle your answer.

(-3, 1)      (-2, 1)      (-4, -2)      (-7, 2)

Is the point (0, 0) in the same quadrant as the other three points?

- 3 Here is a blank coordinate grid.

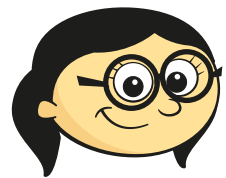


- a) Plot these points on the grid.

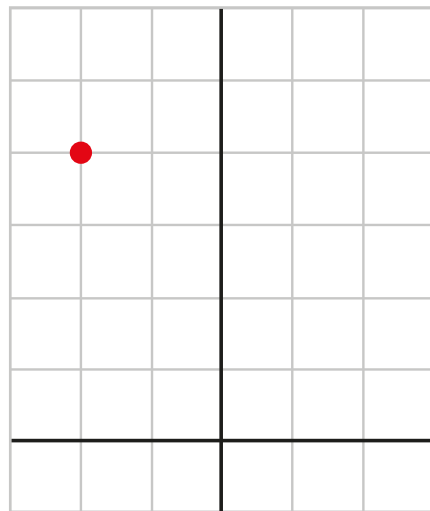
J(2, 0)      L(-4, -6)      K(-4, 2)      M(2, -4)

- b) What type of quadrilateral is the shape JKLM? Trapezium

4



Point A is at (2, 4) because it is 2 across and 4 up.



Is Annie correct? No

Explain your answer.

The x-coordinate is negative and we don't know the scale on the axis.

5

The points Q(6, 0), R(0, 0) and S form a right-angled triangle QRS.

Tick the coordinate(s) that could be the point S.

(6, 8) ☒

(0, -4) ☒

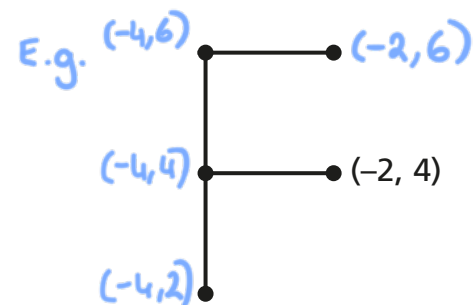
(9, -2) ☐

(-2, 0) ☐

6

Filip has drawn an F on a coordinate grid. One point is labelled.

Suggest possible values for the other points and label them on the diagram.



Compare answers with a partner.

Is there more than one possible set of answers?

7

The rectangle LMNP has an area of 700 square units.

The point L is (15, 15) and the point P is (-20, 15).

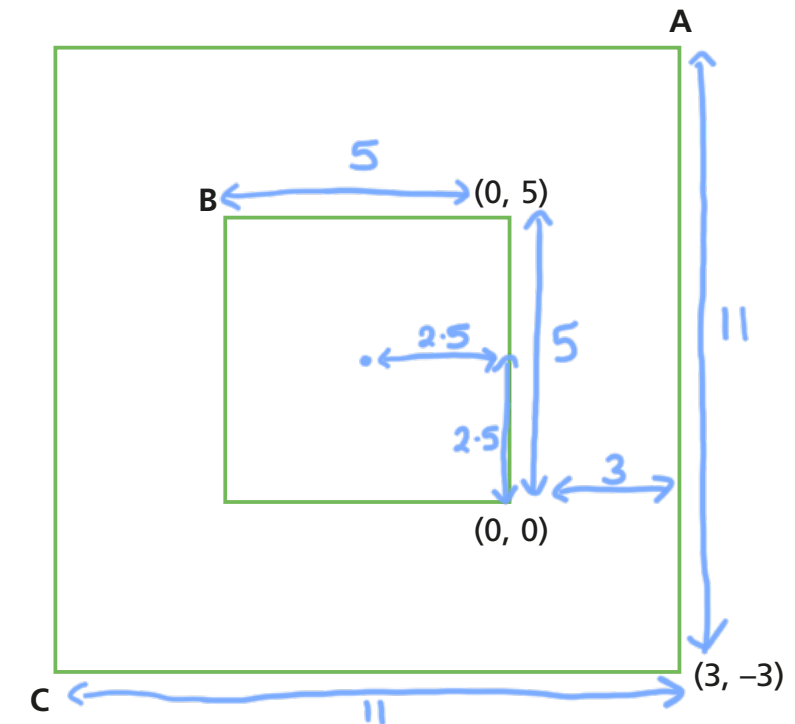
Find one possible pair of answers for M and N.

E.g.

M(  ,  ) and N(  ,  )

8

The diagram shows two concentric squares. (Concentric squares share the same centre.)



a) Find the labelled coordinates.

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

b) What are the coordinates of the centre point of both squares?

(  ,  )