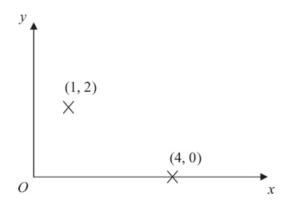
## **TAKE 5 ... COORDINATES**

**Q1.** Find the coordinates of the midpoint of the line joining the points (1, 2) and (4, 0).



**(2)** 

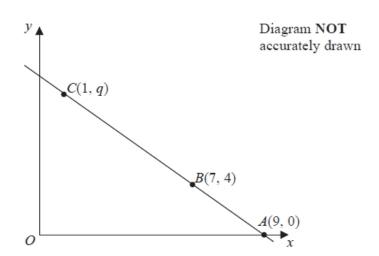
**Q2.** The points A, B and C lie on a straight line.

The coordinates of A are (9, 0).

The coordinates of B are (7, 4).

The coordinates of C are (1, q).

Work out the value of q.





03.	The	points A	B	and	C	lie	in	order	on	а	straight line.
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The coordinates of A are (2, 5)

The coordinates of B are (4, p)

The coordinates of C are (q, 17)

Given that AC = 4AB, find the values of p and q.

(3)

## **Q4.** AB is a line segment.

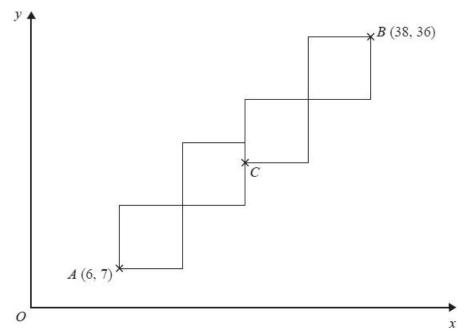
The midpoint of the line segment AB has coordinates (3, 5) Point A has coordinates (9, 2)

(a) Work out the coordinates of point B.

(2)

(b) Work out an equation of the straight line that passes through (9, 2) and (3, 5)

**Q5.** A pattern is made from four identical squares. The sides of the squares are parallel to the axes.



Point A has coordinates (6, 7)Point B has coordinates (38, 36)Point C is marked on the diagram.

Work out the coordinates of C.