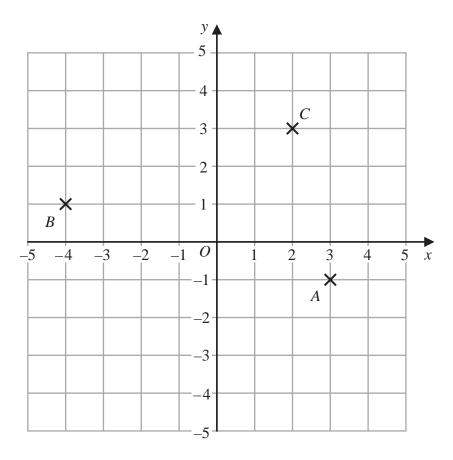
1 The diagram shows three points, A, B and C, marked on a grid.



(a) Write down the coordinates of point A.

(,)
		(1)

The coordinates of the point D are (-2, -4)

(b) On the grid, mark with a cross (\times) the position of D. Label the cross D.

(1)

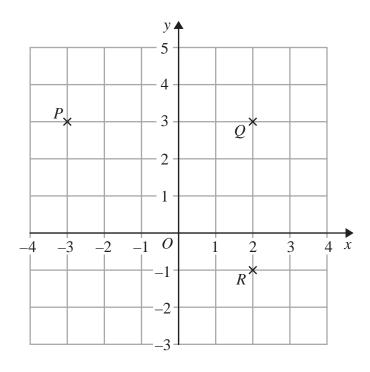
(c) Find the coordinates of the midpoint of BC.

(d) On the grid, draw the line with equation x = 4

(1)

(Total for Question 1 is 5 marks)

2 P, Q and R are three points marked on a grid.



(a) Write down the coordinates of point Q.

(`
(,		,
		(1)	

S is the point such that PQRS is a rectangle.

(b) Find the coordinates of point S.

()	
(,)	
		(1)	

(c) Find the coordinates of the midpoint of PR.

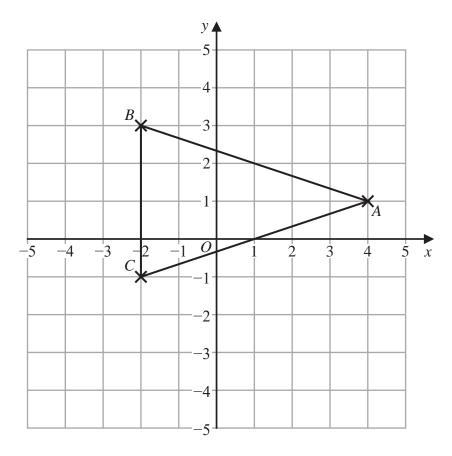


(Total for Question 2 is 4 marks)

The point B has coordinates $(13, 1)$	
(a) Work out the coordinates of the midpoint of AB .	
	(
	(2)
Line L has equation $y = 2 - 3x$	
(b) Write down the gradient of line L.	
	(1)
Line I has equation $y = 2$. 2.	(1)
Line L has equation $y = 2 - 3x$	
(c) Does the point with coordinates (100, -302) lie on line L? You must give a reason for your answer.	
	(1)

(Total for Question 3 is 4 marks)

4 The points A, B and C, shown on the grid, are the vertices of triangle ABC.



(a) Write down the coordinates of the point B.

(,)
		(1)

(b) Write down the mathematical name of triangle ABC.

	(1)

The coordinates of point D are (1, -4)

(c) On the grid, mark with a cross (\times) the position of D. Label the point D.

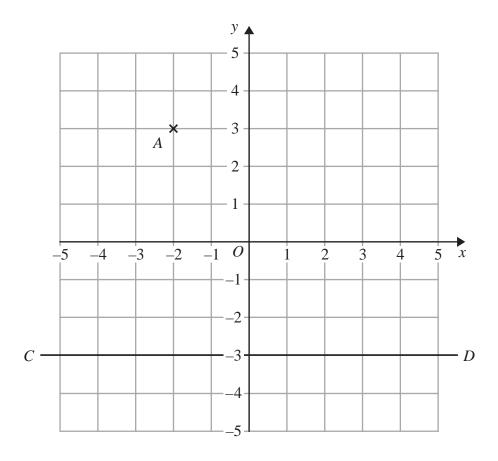
(1)

(d) Find the coordinates of the midpoint of AB.

(.....

(Total for Question 4 is 5 marks)

5 The diagram shows the point A and the line CD on a grid.



(a) Write down the coordinates of point A.

(,)
		(1)

The point B has coordinates (4, -2)

(b) On the grid, mark with a cross (\times) the point B. Label the point B.

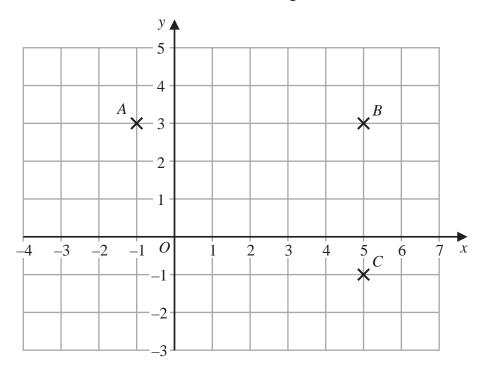
(1)

(c) Write down an equation of the line CD.



(Total for Question 5 is 3 marks)

6 The three points *A*, *B* and *C* are marked on a centimetre grid.



(a) Write down the coordinates of A

(,)
		(1)

(b) Find the coordinates of the midpoint of BC

()	
(,)	
		(2)	

(c) Work out the area of triangle ABC

 	cm ²
(2)	

D is the point on the grid so that ABCD is a rectangle.

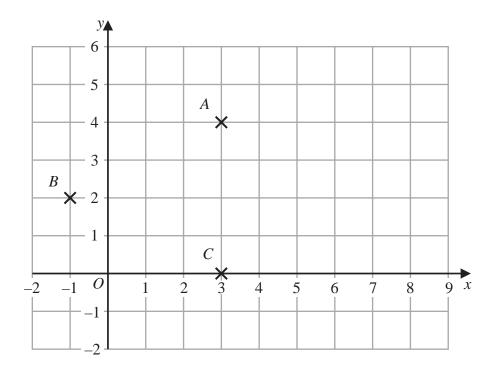
(d) On the grid, mark with a cross (\times) the point D Label this point D

(1)

(Total for Question 7 is 4 marks)

	6.1
7 Two circles, C_1 and C_2 , are drawn on a centimetre grid, with a scale on each axis.	e of 1 cm for 1 unit
The centre of circle C_1 is at the point with coordinates $(-1, 3)$ and is 13 cm.	the radius of C_1
The centre of circle C_2 is at the point with coordinates (7, 18) and is 6 cm.	the radius of C_2
(a) Work out the distance between the centre of C_1 and the centre	of C_2
	cm
	(3)
(b) Explain why circle C_1 intersects circle C_2	

8 The diagram shows three points, A, B and C, on a grid.



- (a) Write down the coordinates of
 - (i) point A

(.....

(ii) point B

D is the point such that ABCD is a rhombus.

(b) On the grid, mark with a cross (\times) the point D Label this point D

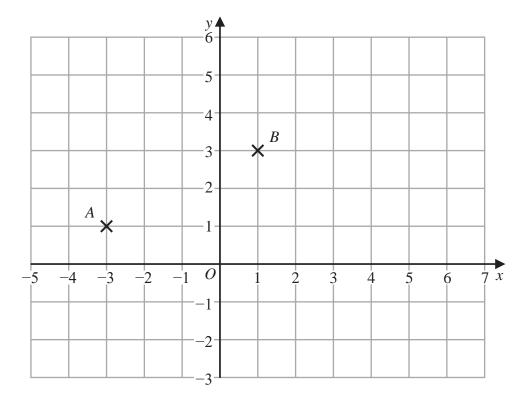
(1)

(c) Find the coordinates of the midpoint of AB

,(2)

(Total for Question 8 is 5 marks)

9 The diagram shows points A and B marked on a grid of squares.



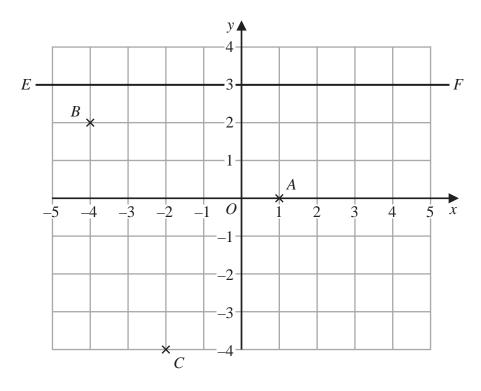
M is the midpoint of AB

(b) Find the coordinates of M

(,)	
		(2)	

(Total for Question 9 is 2 marks)

10 The diagram shows three points, A, B and C, and a line EF on a grid.



(a) Write down the coordinates of the point A



The coordinates of the point D are (3, -2)

(b) On the grid, mark with a cross (\times) the position of D Label the cross D

(1)

(c) Find the coordinates of the midpoint of BC

<i>(</i>		,
(,	<i>)</i>
		(2)

(d) Write down the equation of the line EF



(Total for Question 10 is 5 marks)

11 The points A and B are on a coordinate	ate grid.
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The coordinates of A are (6, 4)

The coordinates of B are (17, j) where j is a constant.

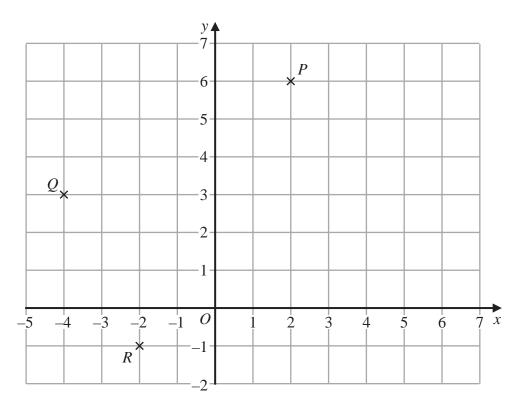
The midpoint of AB has coordinates (k, 15) where k is a constant.

Find the value of j and the value of k

j	=	 	 	 	 	 		 		 	 	 				 	
k	=	 	 	 	 	 		 		 	 	 				 	

(Total for Question 11 is 3 marks)

12



- (a) Write down the coordinates of the point
 - (i) *P*

(,)
		(1)

(ii) Q

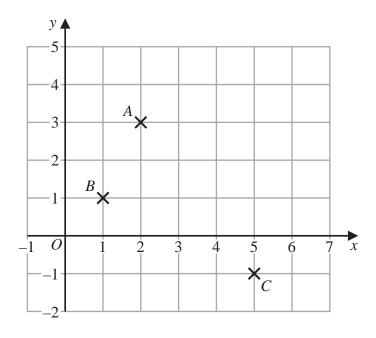
(,)
		(1)

(b) On the grid above, mark with a cross (\times) the point S so that PQRS is a rectangle.

(1)

(Total for Question 12 is 3 marks)

13 The diagram shows three points, A, B and C, marked on a grid.



(a) Write down the coordinates of point A

(,)
		(1)

(b) On the grid, mark with a cross (\times) the point D so that ABCD is a rectangle.

(1)

(c) Find the coordinates of the midpoint of AC

(d) On the grid, draw the line with equation y = 4

(1)

(Total for Question 13 is 5 marks)