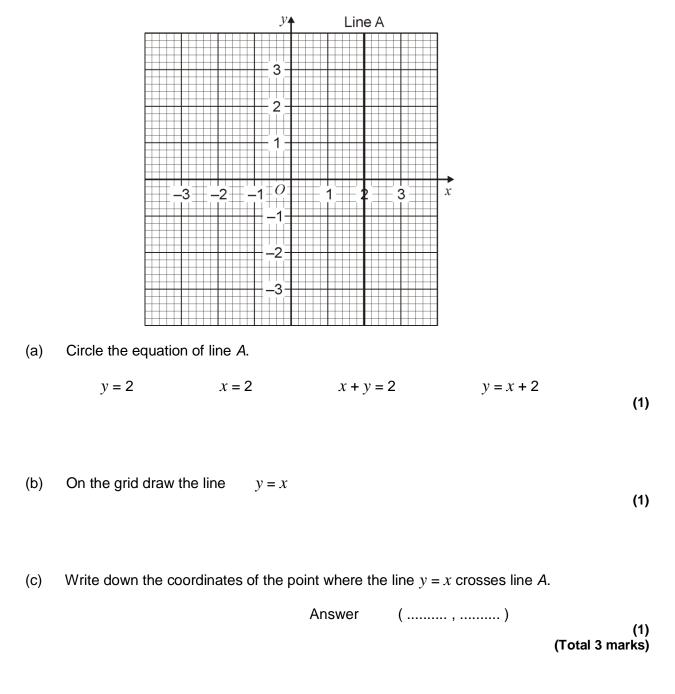
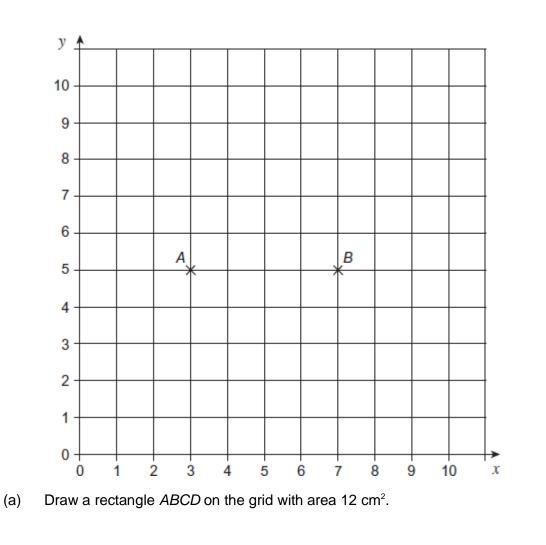
Q1.



**Q2.**Points *A* and *B* are shown on the centimetre grid.

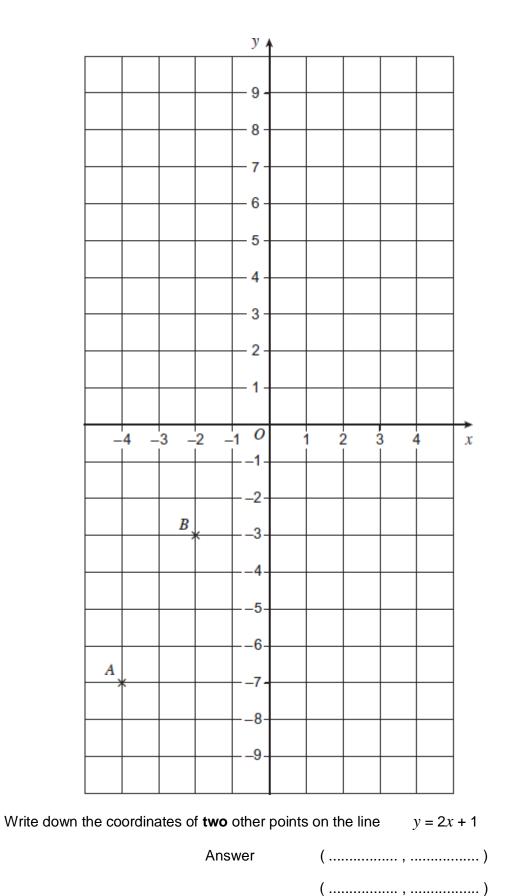


(b) Write down the coordinates of point *C* and point *D*.

(2) (Total 4 marks)

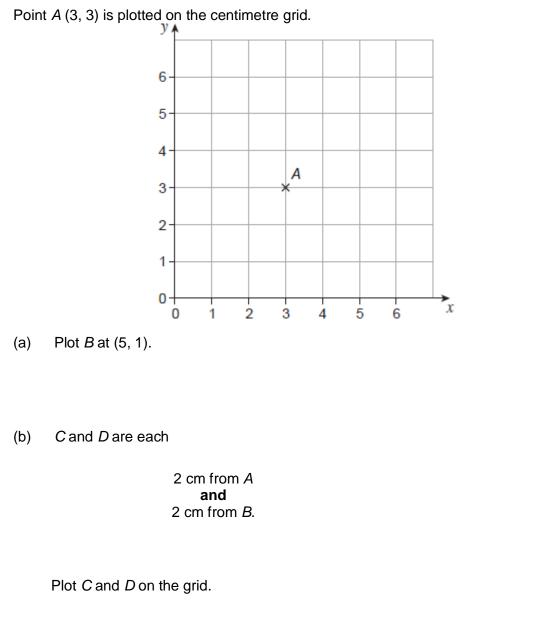
(2)

**Q3.**Points A (-4, -7) and B (-2, -3) are plotted. A and B lie on the line y = 2x + 1



(Total 2 marks)





(c) Join *C* and *D* with a straight line.

Write down the coordinates of the midpoint of the line.

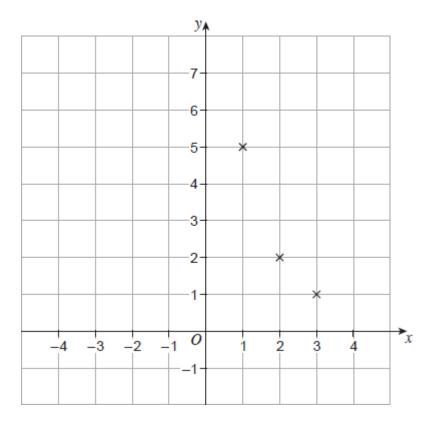
Answer ( ..... )

(1) (Total 4 marks)

(1)

(2)

Q5.



(a) Three points are shown on the grid.

Circle the point which does **not** lie on the line 2x + y = 7

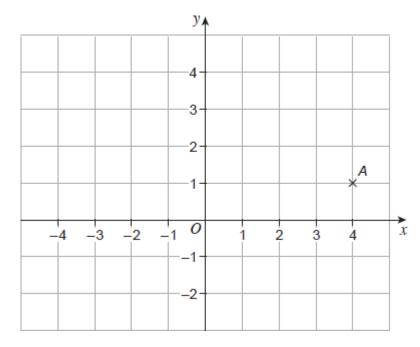
(b) Work out the coordinates of the point where the line 2x + y = 7 crosses the *x*-axis.

Answer ( ..... )

(2) (Total 3 marks)

Q6.

Point A is marked on the grid.



(a) What are the coordinates of A?

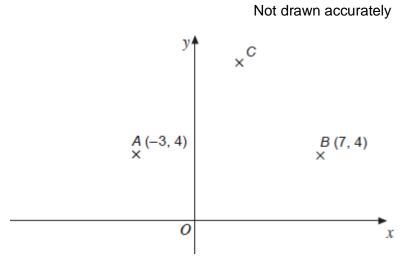
Answer ( ..... )

(b) Plot and label the point B(-2, 4).

(1) (Total 2 marks)

Q7.

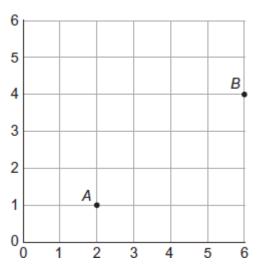
Points A, B and C are plotted.



## Q8.

Here is a scale diagram of a village. The grid lines are the roads in the village.





(a) Alan's house, *A*, has coordinates (2, 1).

Write down the coordinates of Ben's house, B.

Answer ( ..... , ...... )

Work out the **shortest** possible distance that he can walk.

Answer ..... metres

(2)

(c) Colin's house, *C*, is in the village.

The shortest distance along the roads from C to A is 600 metres. The shortest distance along the roads from C to B is 500 metres.

Work out the coordinates of C.

Answer ( ..... , ...... )

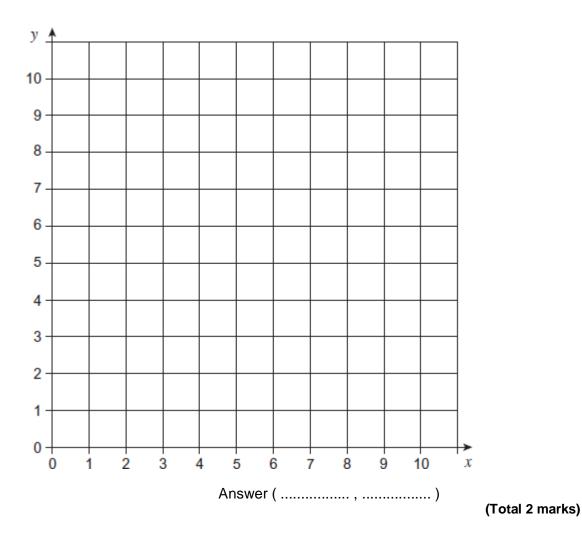
(2) (Total 5 marks)

**Q9.***A* is the point (2, 9) *B* is the point (6, 5)

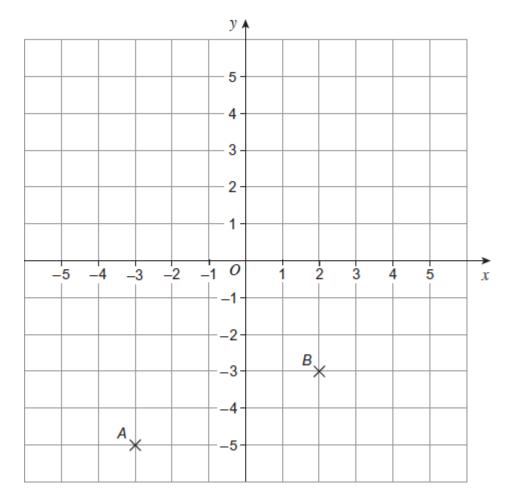
ABC is a straight line.

AB = BC

Work out the coordinates of point *C*. You may use the grid to help you.



**Q10.**Points *A* and *B* are shown on the grid.



(a) Write down the coordinates of *A* and *B*.

Answer A ( ..... , ...... )

B(.....)

(b) Plot point C on the grid so that

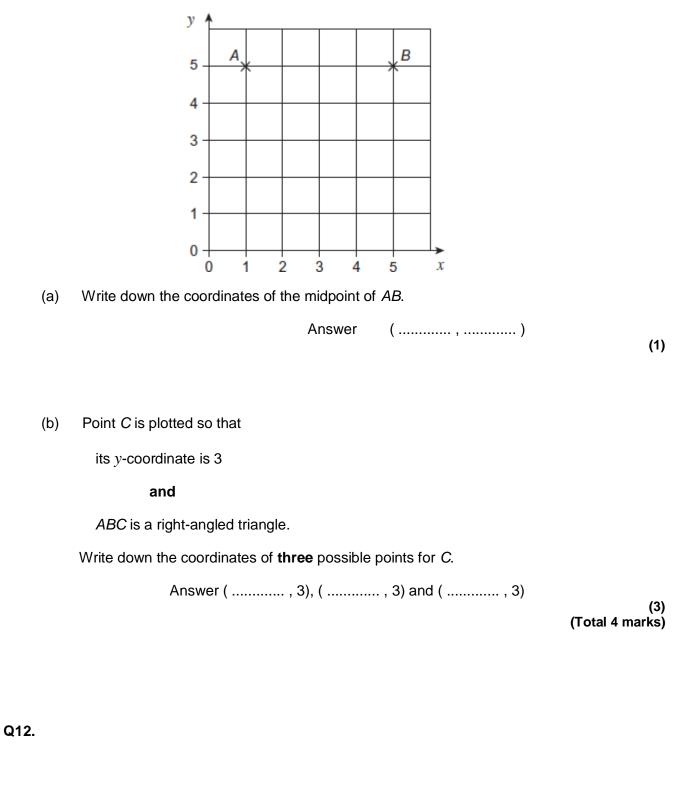
the *x*-coordinate of *C* is less than the *x*-coordinate of *A* 

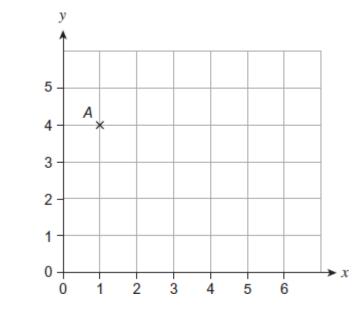
and the *y*-coordinate of *C* is positive and even.

(2) (Total 4 marks)

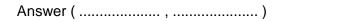
(2)

**Q11.**Points *A* and *B* are shown on the centimetre grid.





(a) Write down the coordinates of A.



(b) M is the midpoint of the line AB. M is the point (3, 4).

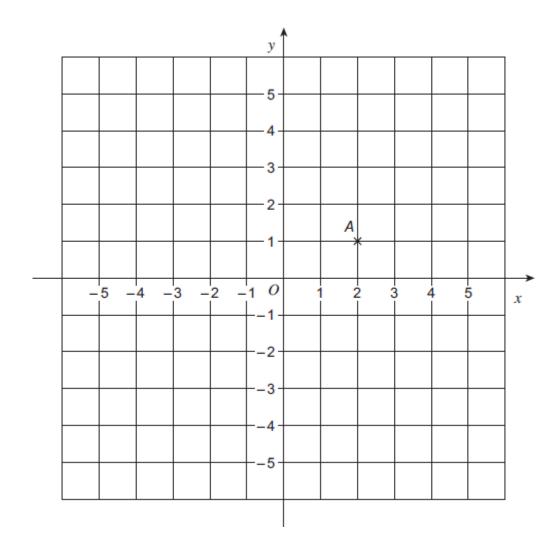
Plot the point B.

(2) (Total 3 marks)

(1)

## Q13.

Point A is shown on the centimetre grid.



(a) Write down the coordinates of A.

Answer ( ..... )

(b) Plot B(-4,1) on the grid.

(c) ABC is a right-angled triangle. It has an area of  $12 \text{ cm}^2$ .

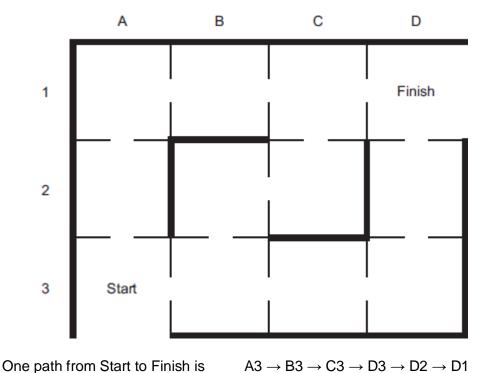
Mark a possible point *C* on the grid.

(1)

## Q14.

(a) A maze has 12 rooms.

Walls without doors are shown as Other walls have doors which are shown as gaps.



Complete these two paths through the maze.

First path A3  $\rightarrow$  B3  $\rightarrow$  B2  $\rightarrow$  ....

Second path A3  $\rightarrow$  A2  $\rightarrow$  A1  $\rightarrow$  .....

(2)

(b) This maze has money in some of the rooms.

		А	В	С	D						
	1	£2	£2	£1	Finish						
	2	£2	£1	£5	£2						
	3	Start	£1	£1	£2						
(i) How much is in room B3?											
£ (ii) Which room has £5?											
Answer											

(iii) Money is collected as you go through the maze from Start to Finish. You can only go through a room **once**.

Complete the path that collects the most money.

A3 → B3 →

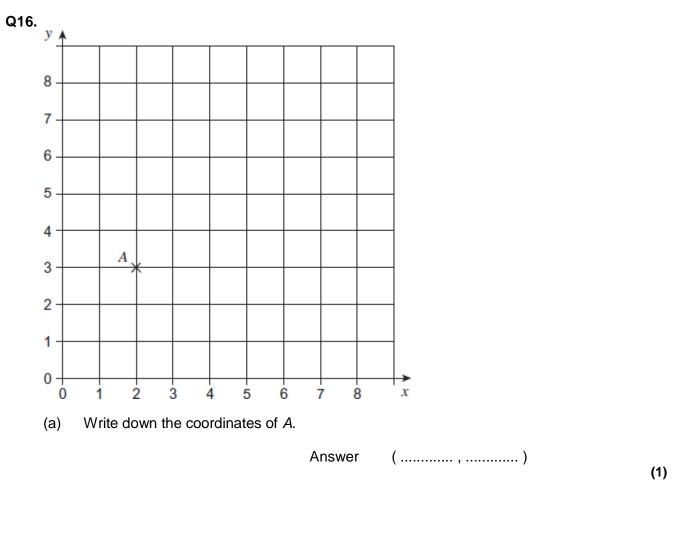
(2) (Total 6 marks)

(1)

Q15.

		У 🔺								
		_ 4	*							
		- 3								
		_2								
		-1								
	-4 -3 -2 -1		2 3	4 x						
		1								
		2								
		3-								
		4								
(c)	Write down the ac		f point 4							
(a)	Write down the co	oordinates o	Answer	(	, )					
			Allswei	(	)		(1)			
(b)	Plot the point (-3,	, –1) on the	grid.							
	Label it <i>B</i> .						(1)			
(c)		c-coordinate								
		the same <i>y</i> -coordinate as point <i>B</i> .								
	Write down the co	oordinates of								
			Answer	(	)					

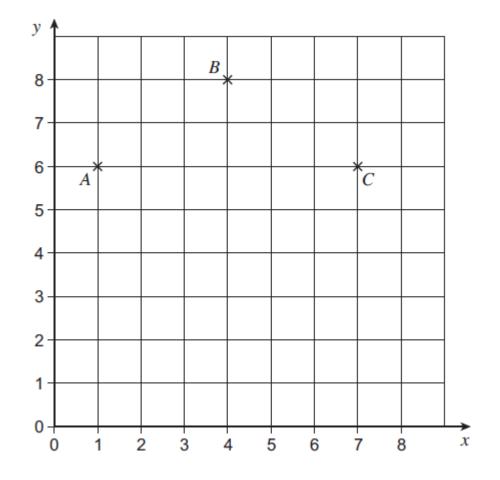
(1) (Total 3 marks)



(b) Plot the point B(8, 3) on the grid.

(1) (Total 2 marks)

**Q17.***A*, *B* and *C* are plotted on this centimetre grid.



(a) Write down the coordinates of *A*.

Answer( ..... , ...... ) (1)

(b) Write down the coordinates of the midpoint of AC.

Answer( ..... , ...... ) (1)

(c) Plot a point D on the grid so that ABCD is a kite.

(1) (Total 3 marks)