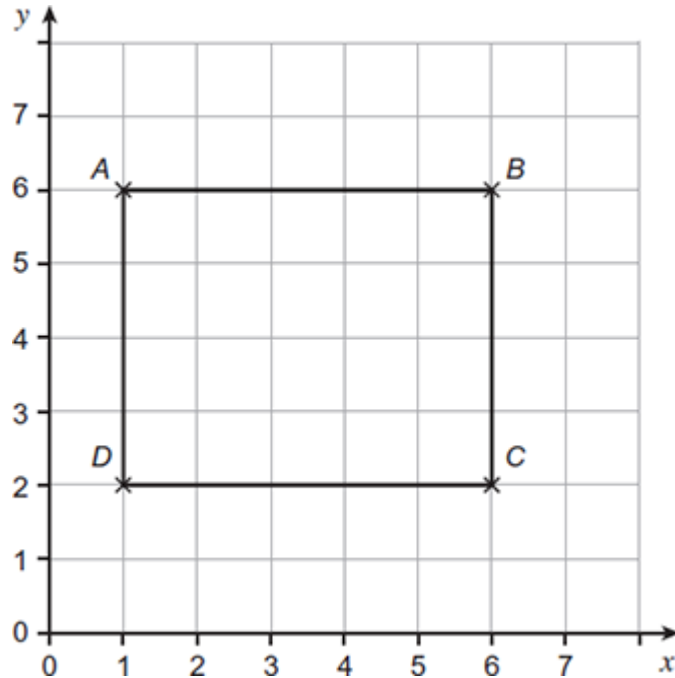


Non-Calculator

Q1.

$ABCD$ is a rectangle on a centimetre grid.



- (a) Write down the coordinates of A .

Answer (_____, _____)

(1)

- (b) Mark the midpoint of BC with a cross.

(1)

- (c) Work out the perimeter of the rectangle.

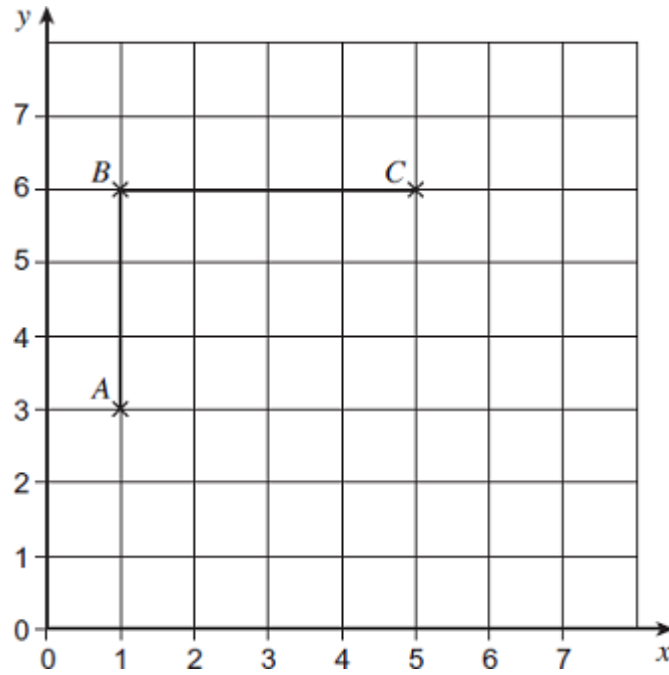
Answer _____ cm

(2)

(Total 4 marks)

Q2.

Lines AB and BC are shown on the centimetre grid.



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

Answer (_____ , _____)

(1)

- (b) A , B and C are three corners of a rectangle $ABCD$.

Complete the rectangle on the grid.

(1)

- (c) Work out the perimeter of rectangle $ABCD$.

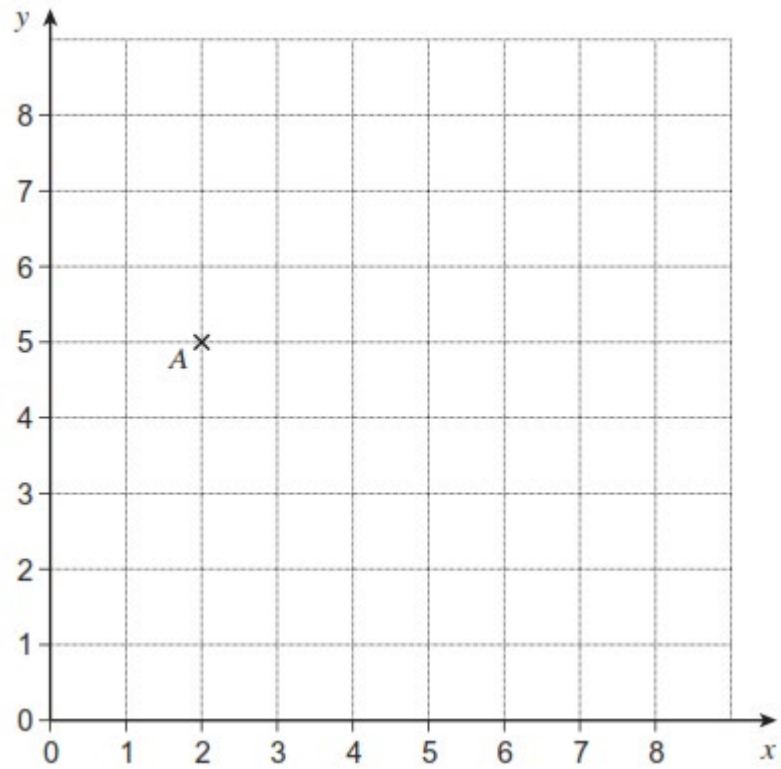
Answer _____ cm

(2)

(Total 4 marks)

Q3.

Point A is shown on the grid.



(a) Write down the coordinates of A .

Answer (_____ , _____)
(1)

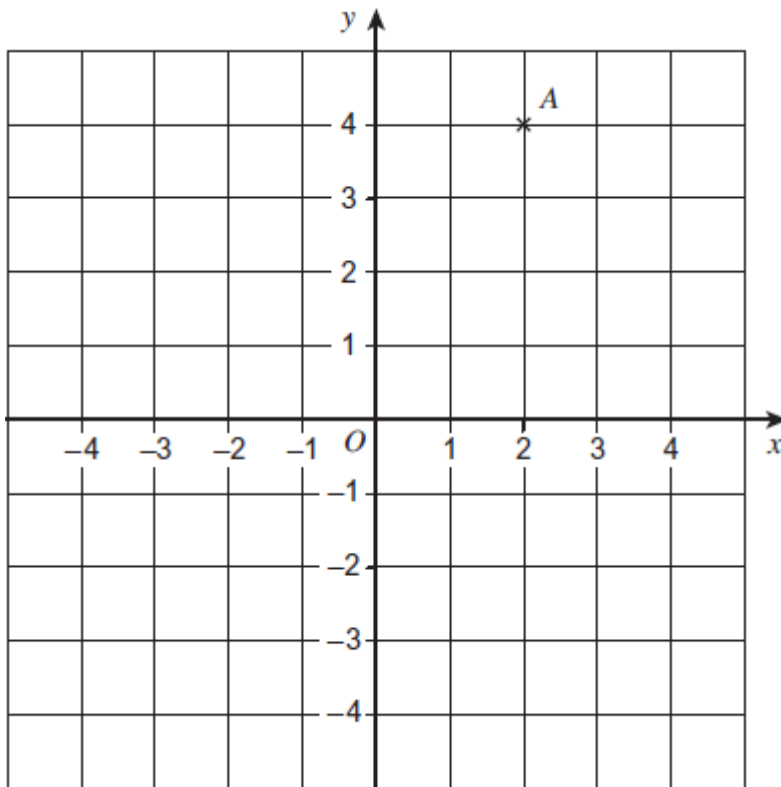
(b) Plot point B (8,1) on the grid.

(1)

(c) Work out the coordinates of the midpoint of AB .

Answer (_____ , _____)
(2)
(Total 4 marks)

Q4.



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

Answer (_____ , _____)
(1)

(b) Plot the point $(-3, -1)$ on the grid.
Label it *B*.

(1)

(c) Point *C* has

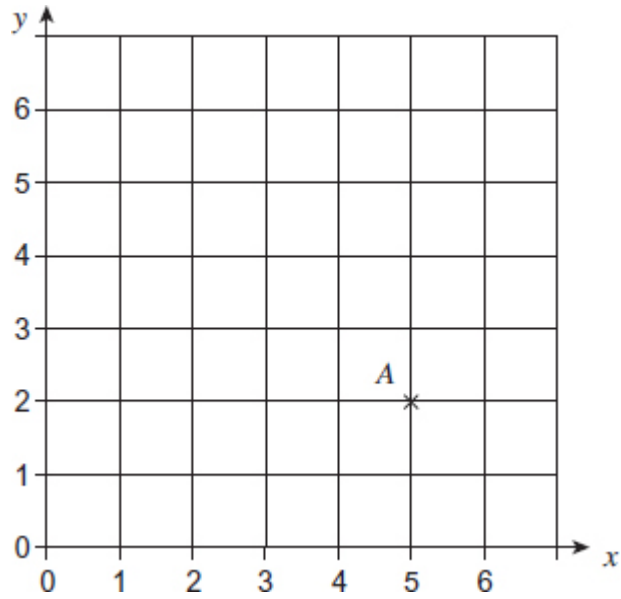
- the same *x*-coordinate as point *A*
- the same *y*-coordinate as point *B*.

Write down the coordinates of point *C*.

Answer (_____ , _____)
(1)
(Total 3 marks)

Q5.

Point *A* is shown on the grid.



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

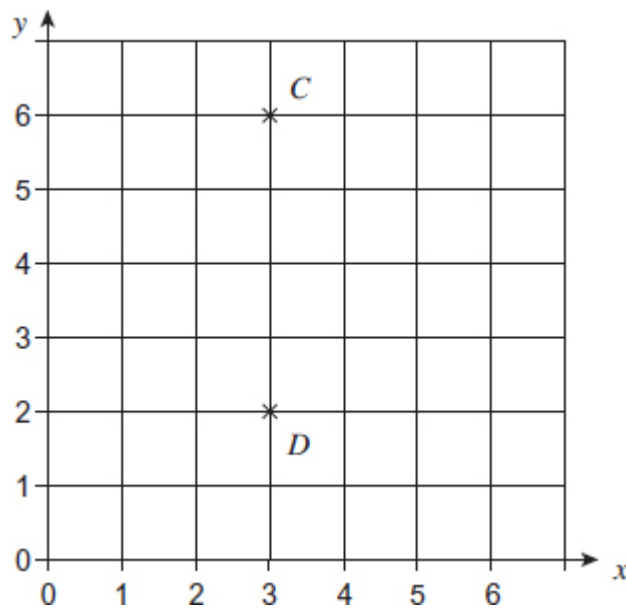
Answer (_____ , _____)

(1)

(b) Plot point *B* (1, 2) on the grid.

(1)

(c) Point *E* is the same distance from point *C* as it is from point *D* on the grid below.



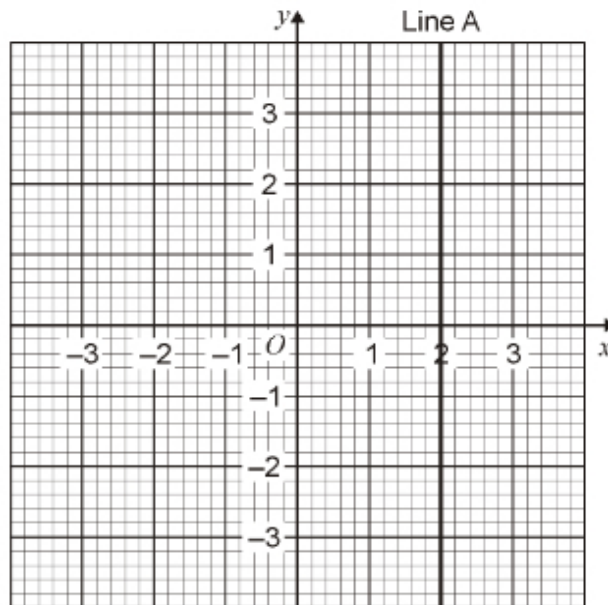
Write down **two** possible pairs of coordinates of *E*.

Answer (_____ , _____) and (_____ , _____)

(2)

(Total 4 marks)

Q6.



(a) Circle the equation of line A.

$y = 2$

$x = 2$

$x + y = 2$

$y = x + 2$

(1)

(b) On the grid draw the line $y = x$

(1)

(c) Write down the coordinates of the point where the line $y = x$ crosses line A.

Answer (_____ , _____)

(1)

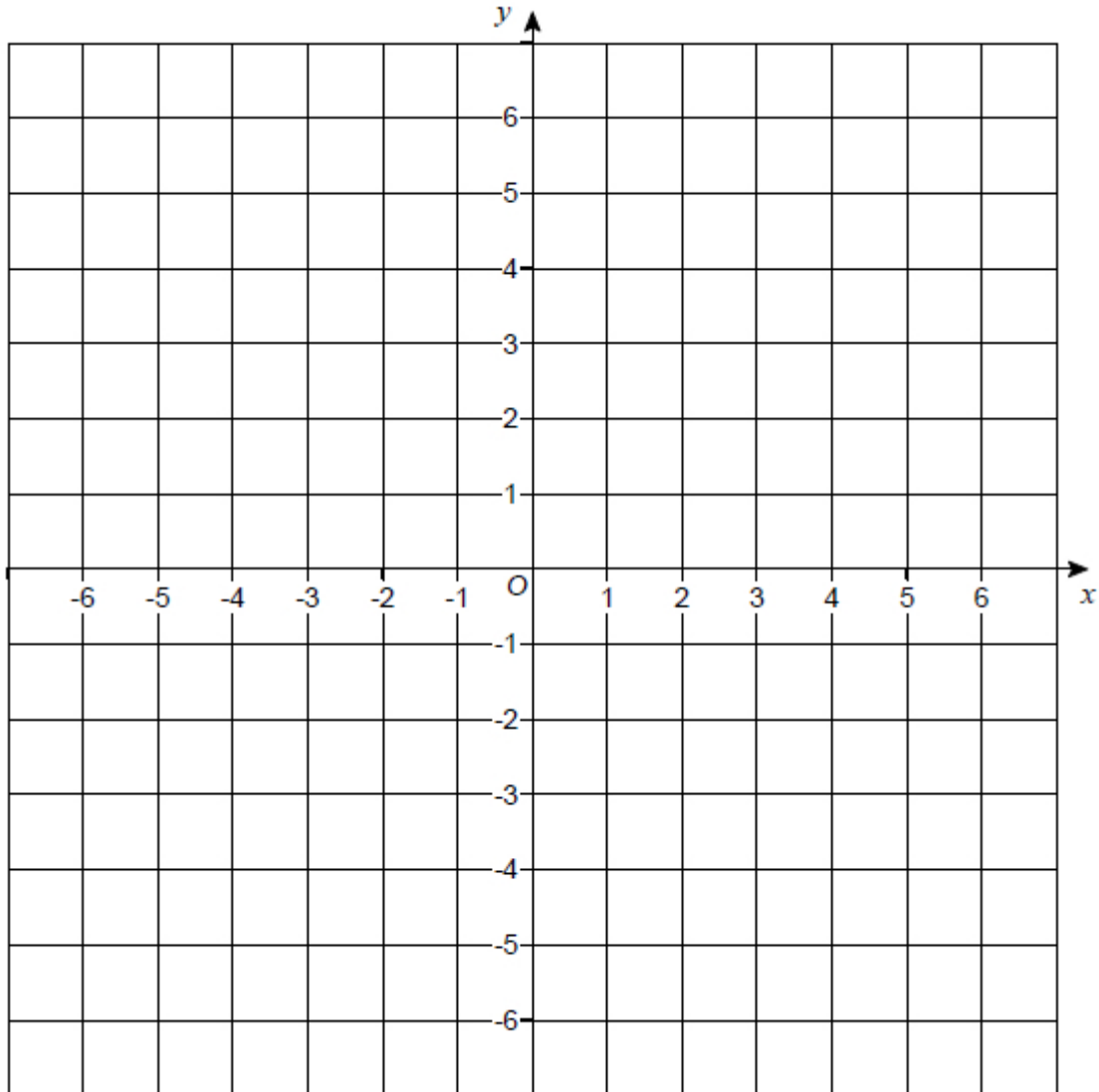
(Total 3 marks)

Q7.

A straight line passes through the points $(-1, 2)$ and $(1, 6)$

Another straight line has equation $y = x$

Work out the coordinates of the point of intersection of the two lines.
You may use the grid to help you.

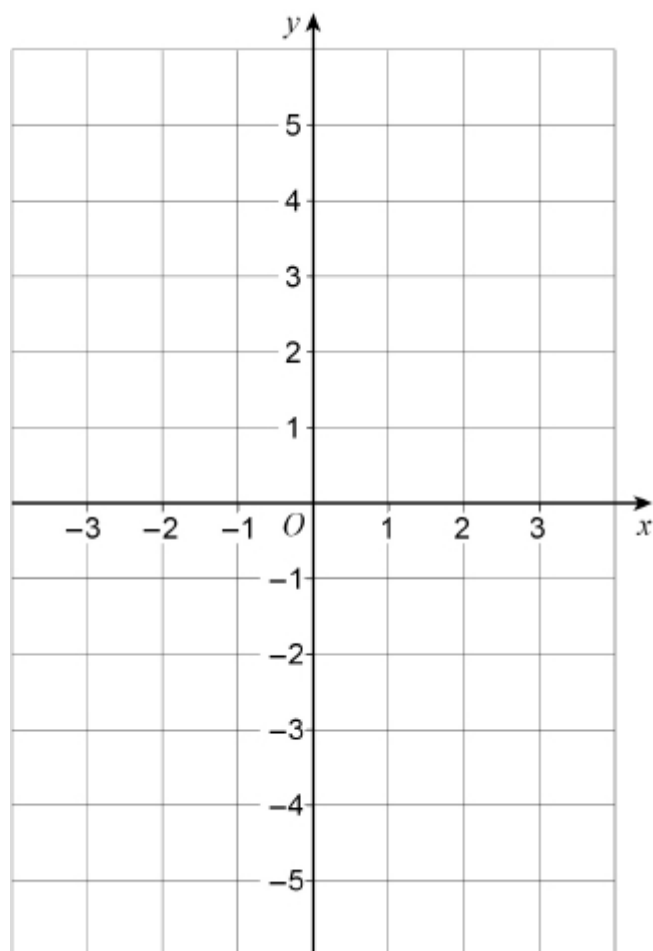


Answer (..... ,)

(Total 4 marks)

Q8.

On the grid, draw the graph of $x + y = 2$ for values of x from -3 to 3



(Total 2 marks)

Calculator

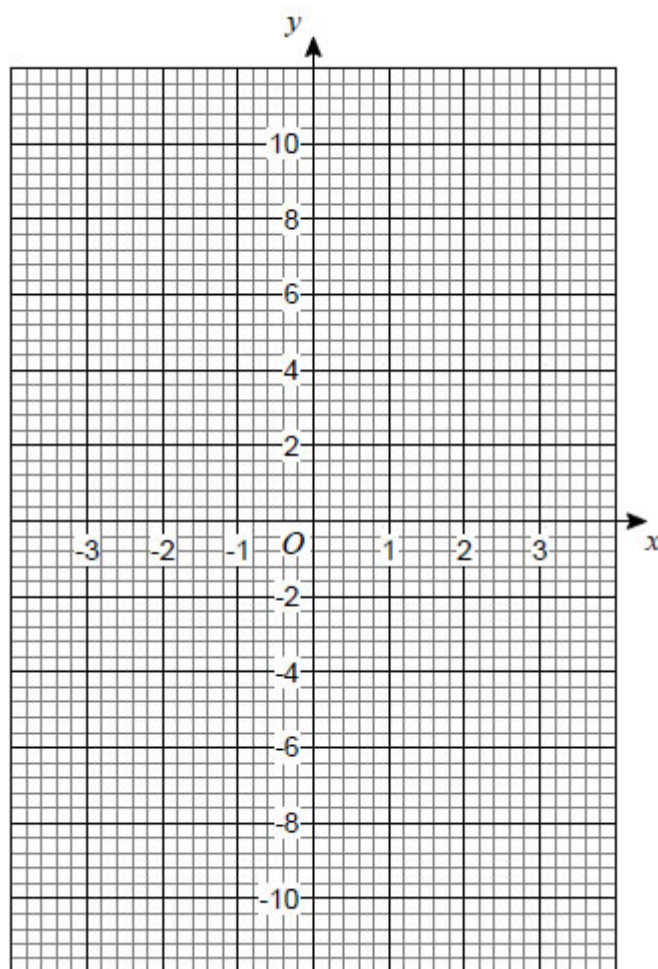
Q9.

(a) Complete the table for $y = 3x + 1$

x	-3	-2	-1	0	1	2	3
y	-8		-2		4		

(2)

(b) On the grid draw the graph of $y = 3x + 1$ for values of x from -3 to 3



(2)

(c) Solve $x = 3x + 1$

$x =$ _____

(2)

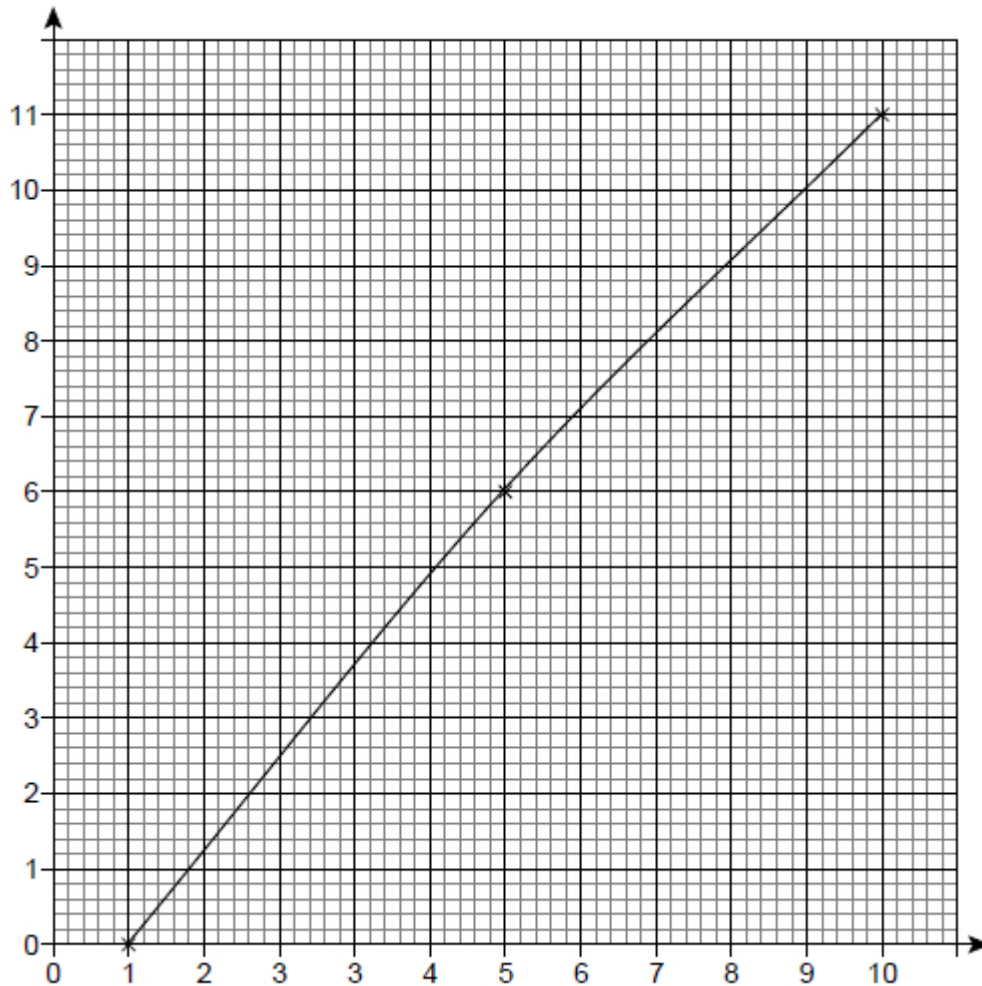
(Total 6 marks)

Q10.

Guy is using this table of results to draw the graph of $y = x + 1$ for values of x from 0 to 10

x	0	5	10
y	1	6	11

This is his graph.



Write down **three** different mistakes he has made.

Mistake 1 _____

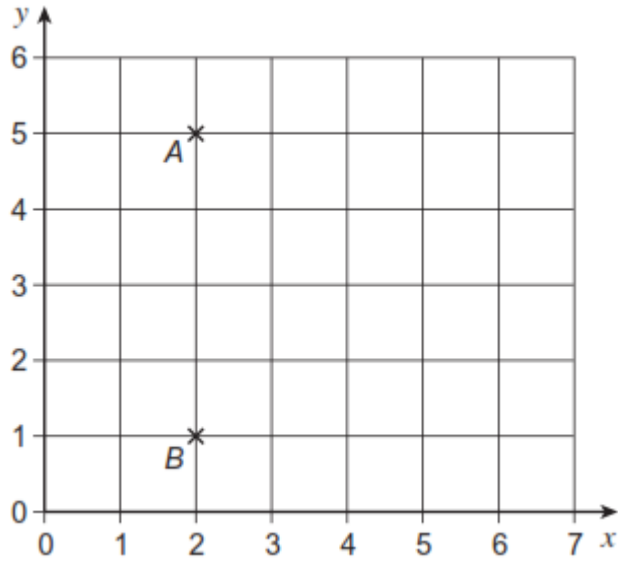
Mistake 2 _____

Mistake 3 _____

(Total 3 marks)

Q11.

Points A and B are shown on the grid.



- (a) Write down the coordinates of A .

Answer (_____ , _____) (1)

- (b) Plot point C (6, 1) on the grid.

(1)

- (c) $ABCD$ is a square.

Write down the coordinates of D .

Answer (_____ , _____) (1)

- (d) Write down the coordinates of the centre of the square.

Answer (_____ , _____) (1)

(Total 4 marks)

Q12.

A is the point with coordinates $(x, 2y)$.

B is the point with coordinates $(3x, 4y)$.

The midpoint of AB has coordinates $(-4, 15)$.

Work out the values of x and y .

$$x = \underline{\hspace{10cm}}$$

$$y = \underline{\hspace{10cm}}$$

(Total 4 marks)

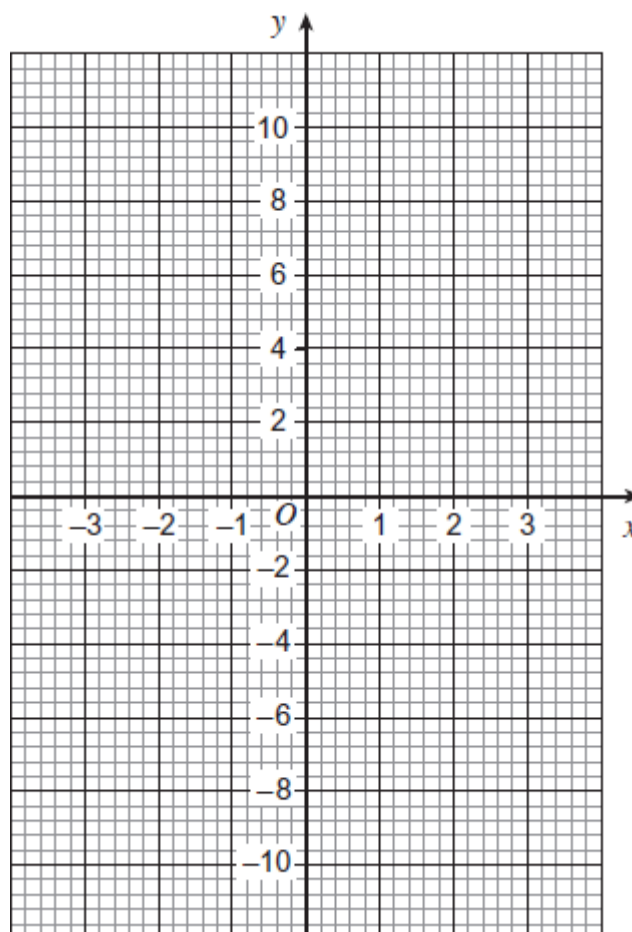
Q13.

(a) Complete the table for $y = 3x - 1$

x	-3	-2	-1	0	1	2	3
y	-10		-4	-1	2		8

(2)

(b) On the grid draw the graph of $y = 3x - 1$ for values of x from -3 to 3

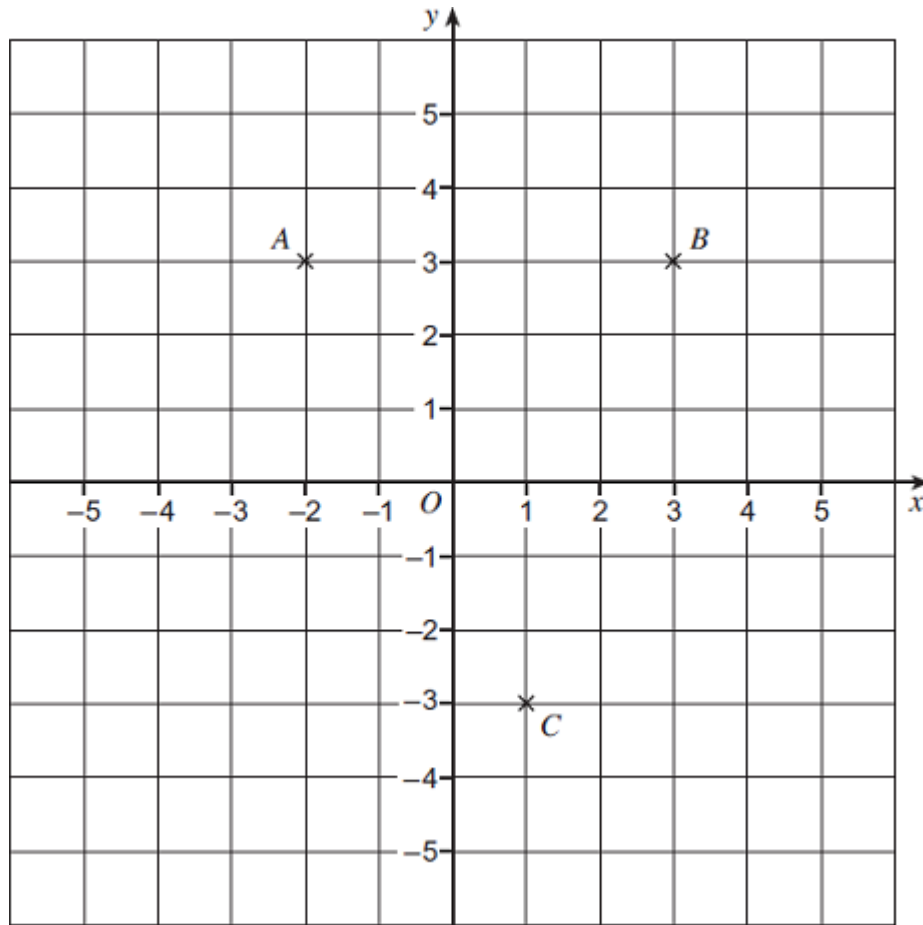


(2)

(Total 4 marks)

Q14.

Points A , B and C are shown on the centimetre grid.



- (a) Write down the coordinates of A .

Answer (_____ , _____) (1)

- (b) Plot a point D so that $ABCD$ is a parallelogram.

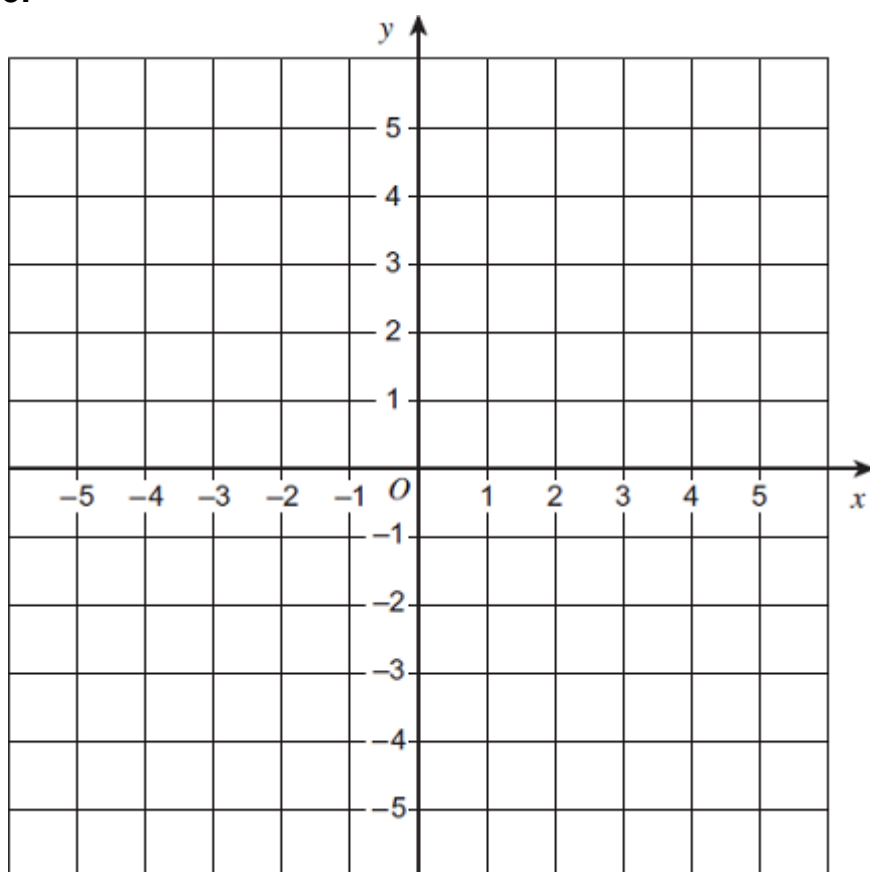
(1)

- (c) Write down the coordinates of D .

Answer (_____ , _____) (1)

(Total 3 marks)

Q15.



(a) Plot the points $A(4, 3)$ and $B(1, -5)$ on the grid. (2)

(b) Point C has
the same x -coordinate as B
the same y -coordinate as A .
Plot the point C on the grid. (1)

(c) Point D has
the same x -coordinate as the y -coordinate of B
the same y -coordinate as the x -coordinate of A .
Plot the point D on the grid. (2)

(Total 5 marks)