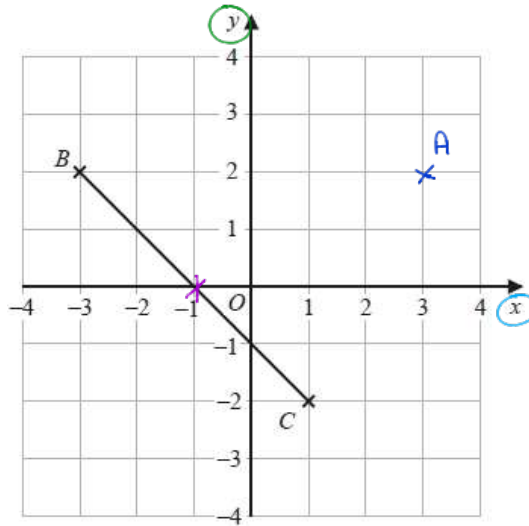


FULL MODEL ANSWERS

Q1. NON-CALCULATOR



(a) Plot the point with coordinates (3, 2). Label this point A.

x y
→ ↑

(1)

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

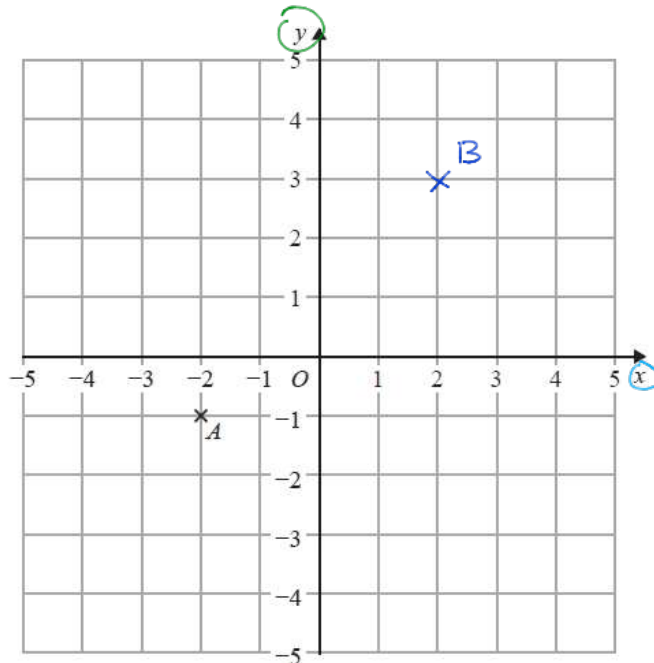
middle

($\frac{-1}{x}$, $\frac{0}{y}$)

(1)

(Total for question = 2 marks)

Q2. NON-CALCULATOR



(a) Write down the coordinates of point A.

($\frac{-2}{x}$, $\frac{-1}{y}$)

(1)

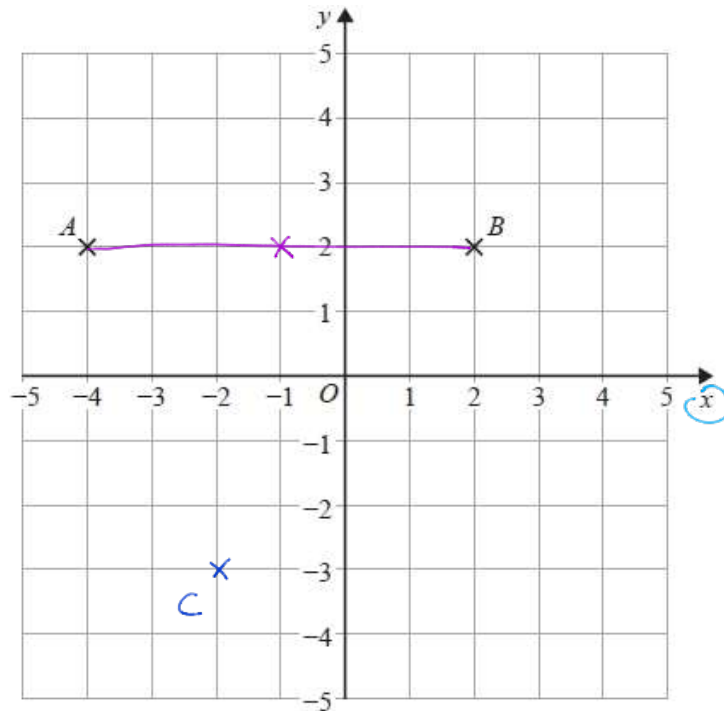
(b) On the grid, mark with a cross (X) the point (2, 3). Label this point B.

x y
→ ↑

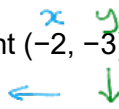
(1)

(Total for question = 2 marks)

Q3. NON-CALCULATOR



(a) On the grid, mark with a cross (X) the point $(-2, -3)$. Label the point C.



(1)

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

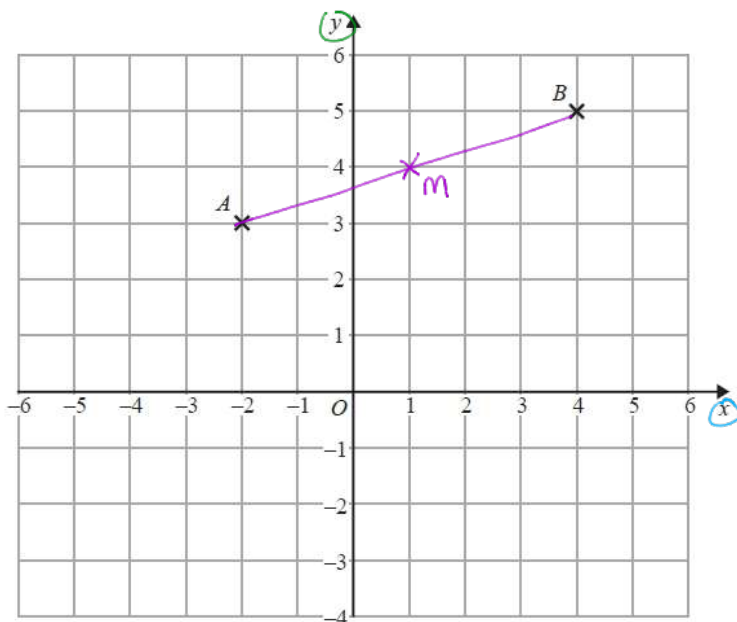
middle

(..... $\overset{-1}{x}$, $\overset{2}{y}$ )

(1)

(Total for question = 2 marks)

Q4. NON-CALCULATOR



(a) Write down the coordinates of point B.

(..... $\overset{4}{x}$, $\overset{5}{y}$ )

(1)

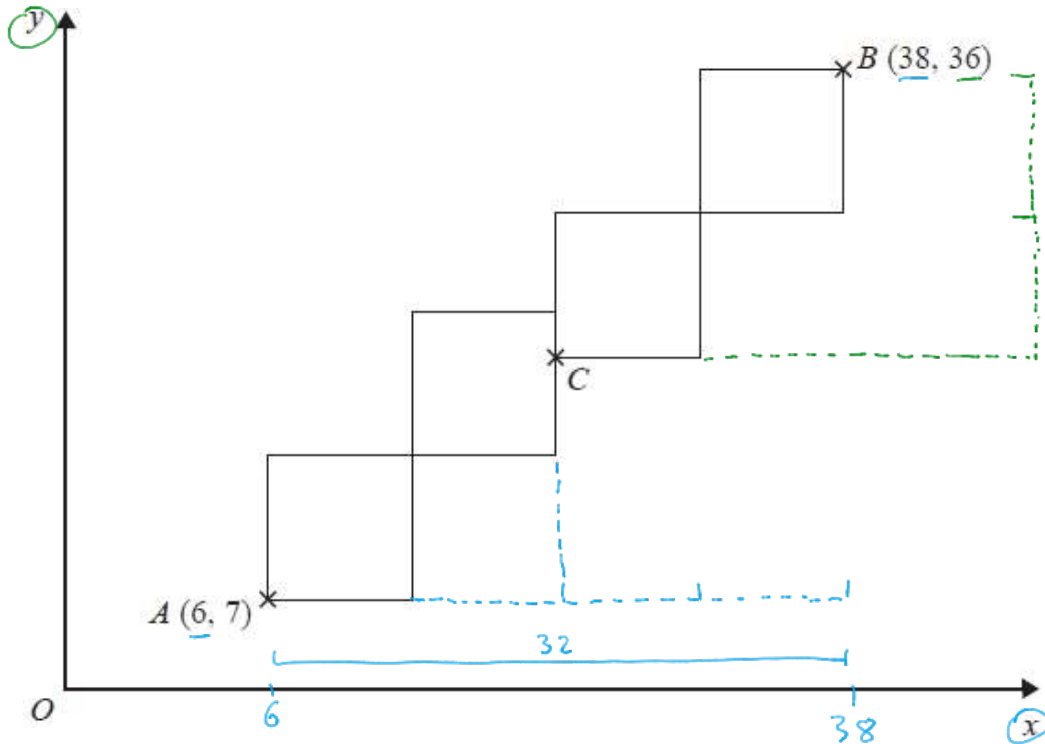
(b) Find the coordinates of the midpoint of AB.

(.....,.....)
 $\frac{1}{x}$ $\frac{4}{y}$
 (1)

(Total for question = 2 marks)

Q5. NON-CALCULATOR

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.

① Using x coordinate, find length of each square and the x -coordinate of C.

② Using length of each square find y coordinate of C.

$$\begin{aligned} \text{①: } 38 - 6 &= 32 \\ 32 \div 4 &= 8 \\ 8 \times 2 &= 16 \\ 16 + 6 &= 22 \end{aligned}$$

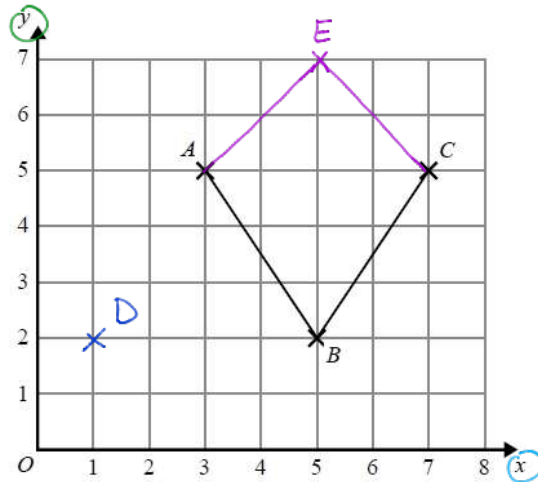
$$\begin{aligned} \text{②: } 36 - 8 - 8 \\ &= 20 \end{aligned}$$

(.....,.....)
 $\frac{22}{x}$ $\frac{20}{y}$

(Total for question = 5 marks)

Q6. CALCULATOR ALLOWED

Here is a grid showing the points A , B and C .



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

..... $\begin{pmatrix} 3 & 5 \\ x & y \end{pmatrix}$ (1)

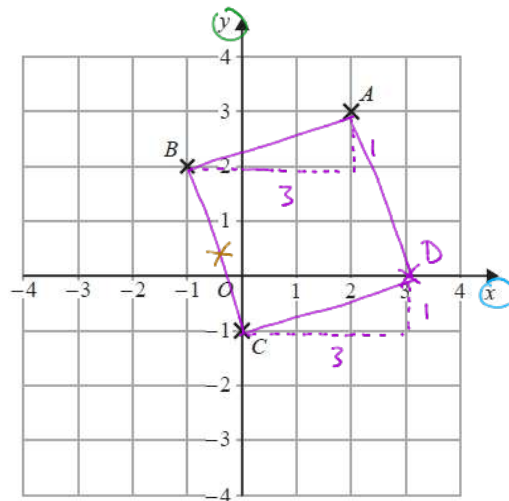
(b) On the grid, mark with a cross (\times) the point $(1, 2)$. Label this point D.

$\begin{matrix} x & y \\ \rightarrow & \uparrow \end{matrix}$ (1)

(c) On the grid, mark with a cross (\times) a point E , so that the quadrilateral $ABCE$ is a kite.

(1)
(Total for question = 3 marks)

Q7. CALCULATOR ALLOWED



(a) Write down the coordinates of point C.

..... $\begin{pmatrix} 0 & -1 \\ x & y \end{pmatrix}$ (1)

(b) On the grid, mark with a cross (X) the point D so that $ABCD$ is a square.

(1)

(c) Write down the coordinates of the midpoint of the line segment BC .

middle

..... $\begin{pmatrix} -0.5 & 0.5 \\ x & y \end{pmatrix}$ (1)

(Total for question is 3 marks)