1 (b) Solve the inequality $3x + 15 < 8x + 3$

Show clear algebraic working.

.....

(3)

(Total for Question 1 is 3 marks)

2 (c) Solve the inequality $4x + 7 > 2$

.....

(2)

(Total for Question 2 is 2 marks)

3 (a) Write down the integer values of x that satisfy the inequality $-2 < x \leqslant 4$

.....

(2)

The region **R**, shown shaded in the diagram, is bounded by three straight lines.

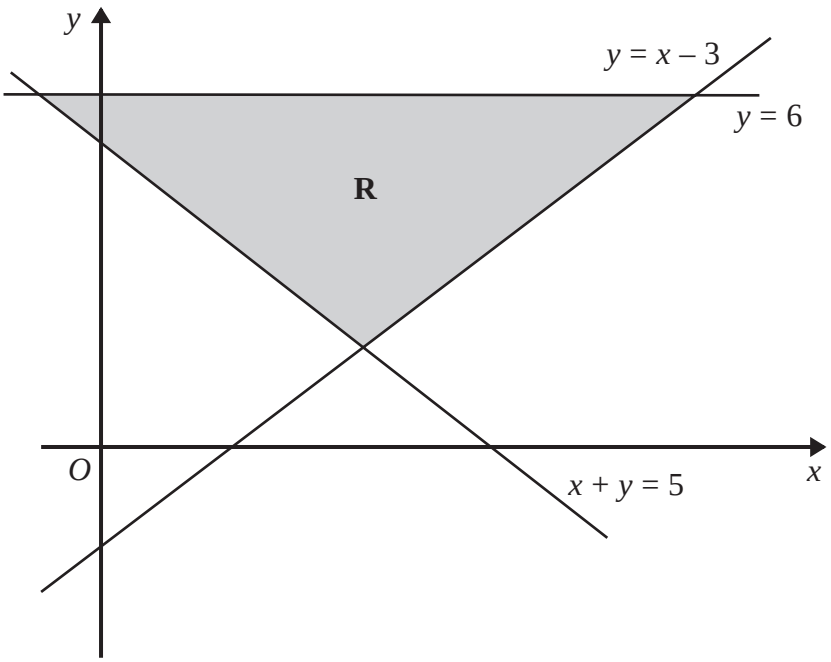


Diagram **NOT** accurately drawn

(b) Write down the three inequalities that define the region **R**.

.....

.....

.....

(2)

(Total for Question 3 is 4 marks)

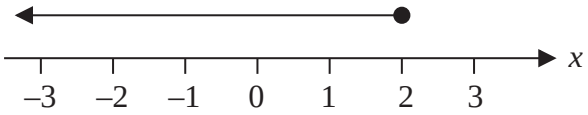
4 (a) Solve the inequality $2x + 7 > 4$

.....

(2)

(Total for Question 4 is 2 marks)

5 (a)



Write down the inequality shown on the number line.

.....

(1)

$-4 \leqslant 2y < 6$

y is an integer.

(b) Write down all the possible values of y.

.....

(2)

(c) Solve the inequality $7t - 3 \leqslant 2t + 31$

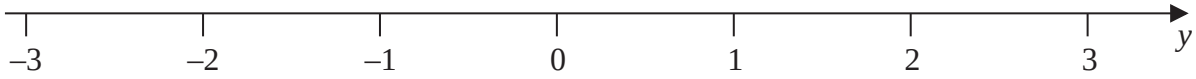
Show your working clearly.

.....

(2)

(Total for Question 5 is 5 marks)

6 (a) On the number line, show the inequality $-2 \leqslant y < 1$



(2)

n is an integer.

(b) Write down all the values of n that satisfy $-3.4 < n \leqslant 2$

.....

(2)

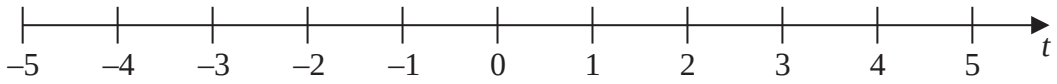
(Total for Question 6 is 4 marks)

7 (c) (i) Solve the inequality $7t - 8 < 2t + 7$

.....

(2)

(ii) On the number line below, represent the solution set of the inequality solved in part (c)(i)



(1)

(Total for Question 7 is 3 marks)

8 Solve the inequality $3 - 4x \leqslant 11$

.....

(Total for Question 8 is 2 marks)

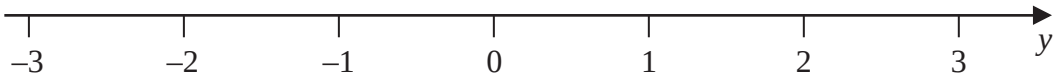
9 n is an integer.

(a) Write down all the values of n such that $-2 \leqslant n < 3$

.....

(2)

(b) On the number line, represent the inequality $y \leqslant 1$



(1)

(Total for Question 9 is 3 marks)

10 (a) Solve $4y + 5 > 12$

.....

(2)

(Total for Question 10 is 2 marks)

11 (a) Solve the inequality $5x - 7 \leqslant 2$

.....

(2)

(Total for Question 11 is 2 marks)

12 $-8 < 2y \leqslant 2$

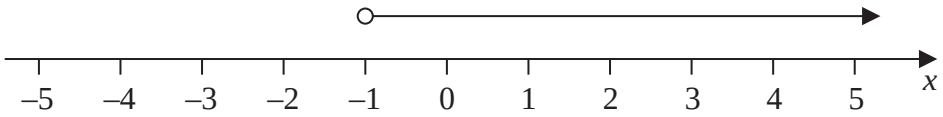
y is an integer.

(a) Find all the possible values of y

.....

(2)

(b) Write down the inequality shown on the number line.

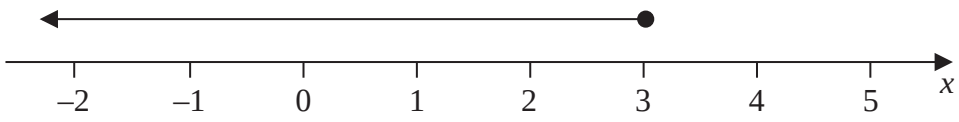


.....

(1)

(Total for Question 12 is 3 marks)

13 (b) Write down the inequality shown on the number line



.....

(1)

(c) Solve the inequality $7w + 6 > 12w + 14$

.....

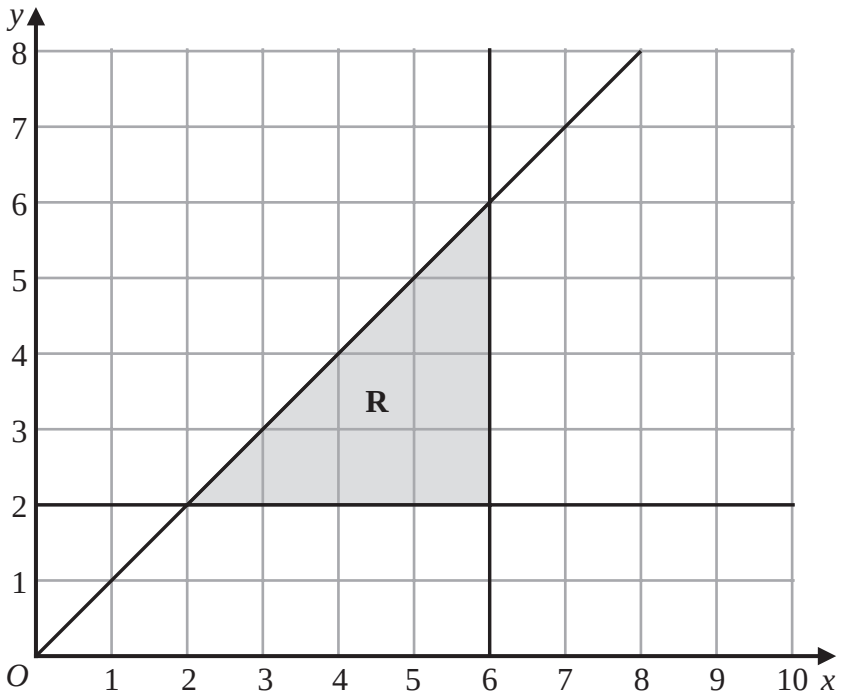
(3)

(Total for Question 13 is 4 marks)

14 (a) Solve $9 - 4x > 17$

.....

(2)



(b) Write down the three inequalities that represent the shaded region **R**

.....

.....

.....

(3)

(Total for Question 14 is 5 marks)