1

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

....

(2)

1

(b) Solve the inequality $5x - 4 < 39$

....

(2)

DO NOT WRITE IN THIS AREA

1   *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 $y \leqslant 1$

$-3 \quad\quad -2 \quad\quad -1 \quad\quad 0 \quad\quad 1 \quad\quad 2 \quad\quad 3 \quad y$

(1)
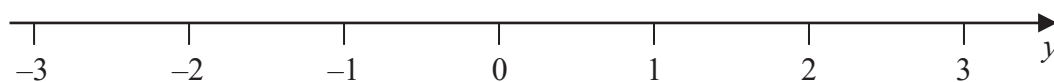
(Total for Question 1 is 3 marks)

1 (a)
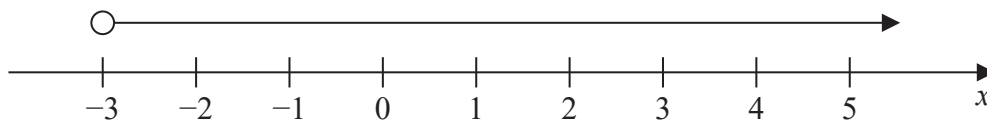
Write down the inequality shown on the number line.

....

(1)

(b) Solve the inequality $4y - 13 \leqslant y + 8$

....

(2)

(Total for Question 1 is 3 marks)

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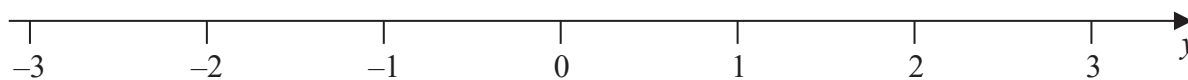
(2)

n is an integer.

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

....

(2)

(Total for Question 3 is 4 marks)

3 $\quad -8 < 2y \leqslant 2$

y is an integer.

(a) Find all the possible values of y

....

(2)

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

....

(1)
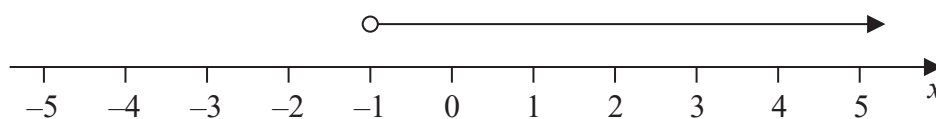
(Total for Question 3 is 3 marks)

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

....

(2)

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

....

(2)

7

(d) Solve the inequality $7 - 2y < 3y - 12$

....

(3)

7 $-4 \leqslant 2y < 6$

  y is an integer.

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

  ....

(2)

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

  Show your working clearly.

  ....

(2)

(Total for Question 7 is 4 marks)

8

(b) Solve the inequality $7 < 4x - 1 \leqslant 17$

....

(3)

(Total for Question 8 is 5 marks)

8

(b) Solve the inequality $3y + 5 > 7y - 10$

Show clear algebraic working.

....

(3)

8 (a) Solve the inequality $8x - 4 \geqslant 3x - 10$

....

(2)

9 (i) Solve the inequalities $-7 \leqslant 2x - 3 < 5$

....

(3)

(ii) On the number line, represent the solution set to part (i)

(2)
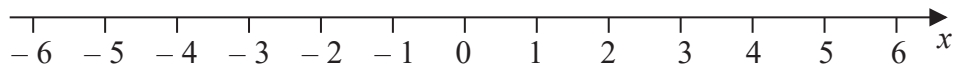
(Total for Question 9 is 5 marks)

9

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

Show clear algebraic working.

....

(3)

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

....

(Total for Question 9 is 2 marks)

10

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

....

(1)

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

....

(3)

(Total for Question 10 is 6 marks)