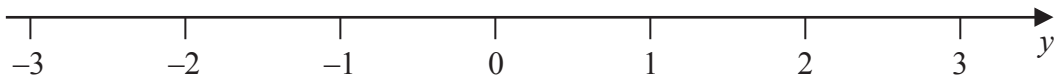
1 n is an integer.

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

.....

(2)

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



(1)

(Total for Question 1 is 3 marks)

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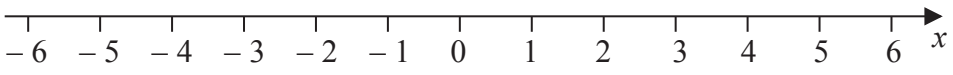
2 (i) Solve the inequalities $-7 \leqslant 2x - 3 < 5$

.....

(3)

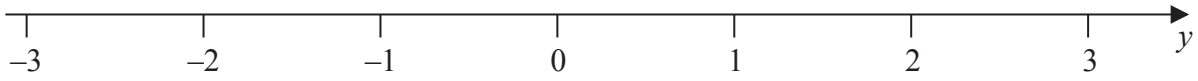
(ii) On the number line, represent the solution set to part (i)



(2)

(Total for Question 2 is 5 marks)

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



(2)

n is an integer.

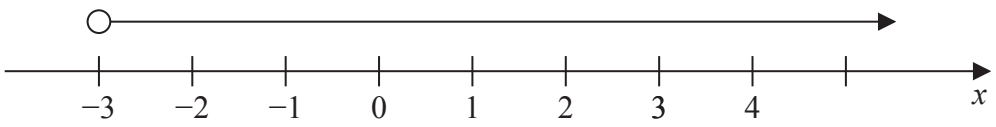
(b) Write down all the values of n that satisfy $-3.4 < n \leqslant 2$

.....

(2)

(Total for Question 3 is 4 marks)

4 (a)



Write down the inequality shown on the number line.

.....

(1)

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

.....

(2)

(Total for Question 4 is 3 marks)

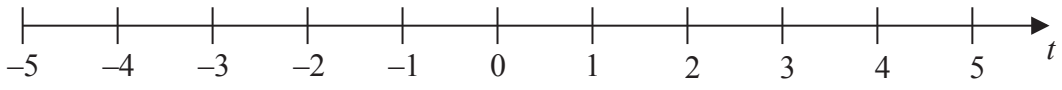
5 (a) Solve the inequality $4(2x + 5) < 3(2x - 3)$

(3)

(b) (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 (b)(i)



(1)

(Total for Question 5 is 6 marks)

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

.....

(2)

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

.....

(2)

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

.....

(3)

(Total for Question 6 is 5 marks)

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 (a) Factorise $x^2 - x - 42$

.....

(2)

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

Show clear algebraic working.

.....

(3)

(Total for Question 8 is 5 marks)

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

.....

(2)

(b) Solve $x^2 - 3x - 40 < 0$
Show clear algebraic working.

.....

(3)

(Total for Question 9 is 5 marks)

10 (a) Solve the inequality $5x + 9 > 14$

.....

(2)

(b) Solve the inequality $5y^2 - 17y \leqslant 40$

.....

(3)

(Total for Question 10 is 5 marks)

11 (b) Solve the inequality $3x + 17 < 9x + 2$

.....

(2)

(b) Solve the inequality $2y^2 - 7y - 30 \leqslant 0$
Show your working clearly.

.....

(3)

(Total for Question 11 is 5 marks)

12 Solve the inequality $4x^2 - 5x - 6 > 0$

.....

(Total for Question 12 is 4 marks)