Name: _____

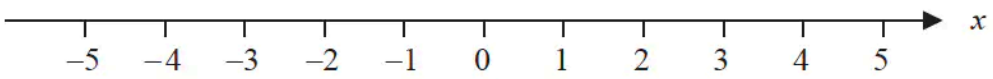
GCSE (1 - 9) Linear Inequalities on a Number Line	Solutions:

These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2018, Paper 3F, Q19
2	Edexcel, GCSE, Summer 2019, Paper 2F, Q20
3	Edexcel, GCSE, Autumn 2019, Paper 1F, Q19
4	Edexcel, GCSE, Autumn 2021, Paper 2F, Q21
5	Edexcel, GCSE, Summer 2023, Paper 2F, Q23

1

(a) On the number line, show the inequality $x < 4$



(2)

$3 < y \leqslant 7$ where y is an integer.

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

.....

(2)

(c) Solve $3x + 5 \geqslant x + 17$

.....

(3)

(Total for Question 19 is 7 marks)

[Edexcel, GCSE, Autumn 2018, Paper 3F, Q19]

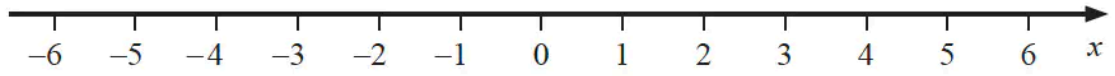
2

(a) Solve $14n > 11n + 6$

.....

(2)

(b) On the number line below, show the set of values of x for which $-2 < x + 3 \leqslant 4$



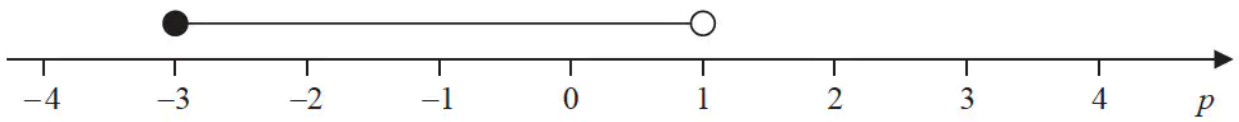
(3)

(Total for Question 20 is 5 marks)

[Edexcel, GCSE, Summer 2019, Paper 2F, Q20]

3

Here is a number line.



Write down the inequality shown on the number line.

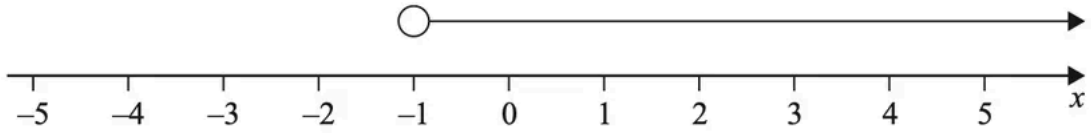
.....

(Total for Question 19 is 2 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1F, Q19]

4

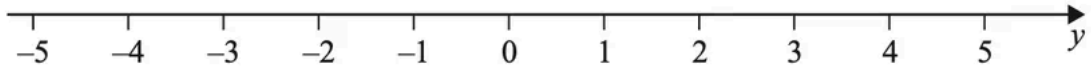
(a) Write down the inequality shown on this number line.



.....

(1)

(b) On the number line below, show the inequality $-3 \leqslant y < 4$



(2)

(Total for Question 21 is 3 marks)

[Edexcel, GCSE, Autumn 2021, Paper 2F, Q21]

5

$-2 \leqslant n < 5$

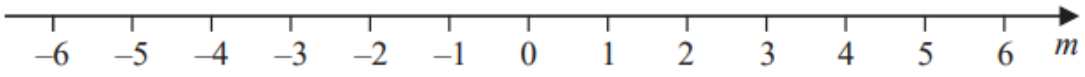
n is an integer.

(a) Write down the greatest possible value of n.

.....

(1)

(b) On the number line below, show the inequality $-4 \leqslant m < 1$



(2)

(c) Solve $\frac{2}{5}g - 4 < 6$

.....

(3)

(Total for Question 23 is 6 marks)

[Edexcel, GCSE, Summer 2023, Paper 2F, Q23]