Name: _____

GCSE (1 - 9) Linear Inequalities	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, Summer 2017, Paper 1F, Q19
2	Edexcel, GCSE, Autumn 2018, Paper 3F, Q19
3	Edexcel, GCSE, Summer 2019, Paper 2F, Q20
4	Edexcel, GCSE, Autumn 2019, Paper 1F, Q19
5	Edexcel, GCSE, Autumn 2019, Paper 1F, Q28
6	Edexcel, GCSE, Autumn 2020, Paper 3F, Q23
7	Edexcel, GCSE, Summer 2022, Paper 1F, Q23
8	Edexcel, GCSE, Summer 2023, Paper 2F, Q23
9	Edexcel, GCSE, November 2022, Paper 1F, Q26

1

(a) Solve $4(x - 5) = 18$

$x =$ .....

(2)

$-3 < t \leqslant 2$
t is an integer.

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

.....

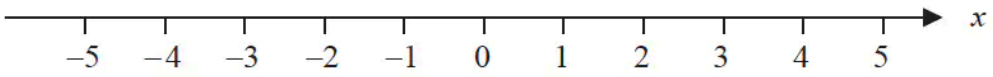
(2)

(Total for Question 19 is 4 marks)

[Edexcel, GCSE, Summer 2017, Paper 1F, Q19]

2

(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]

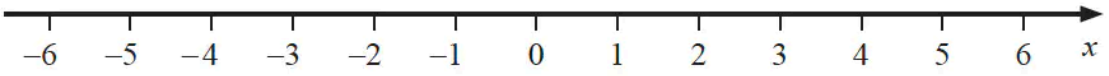
3

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

.....

(2)

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



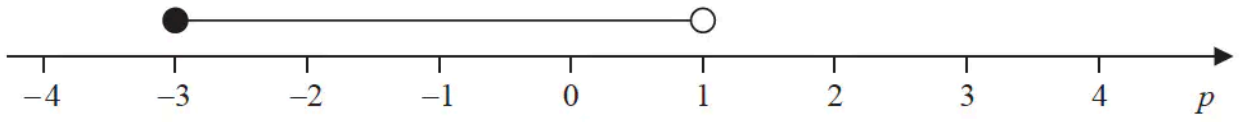
(3)

(Total for Question 20 is 5 marks)

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

4

Here is a number line.



Write down the inequality shown on the number line.

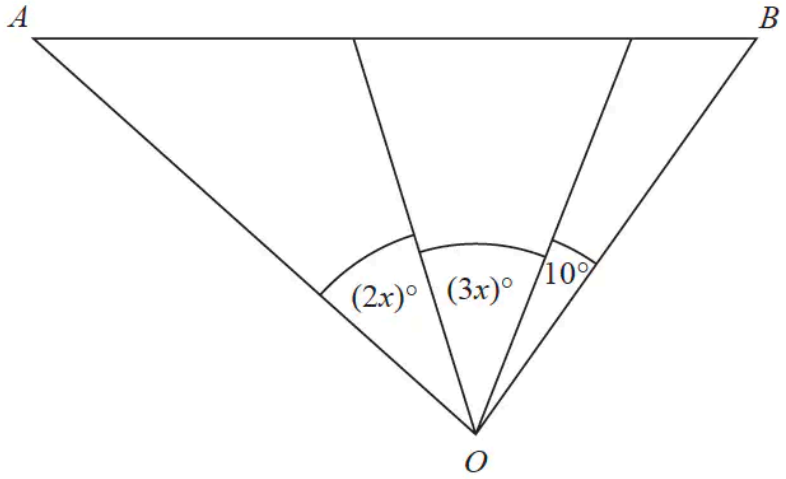
.....

(Total for Question 19 is 2 marks)

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

5

The diagram shows triangle AOB.



Angle AOB is **not** an obtuse angle.

Find the greatest value of x.
You must show all your working.

.....

(Total for Question 28 is 3 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1F, Q28]

6

(a) Simplify $n^3 \times n^5$

.....

(1)

(b) Simplify $\frac{c^3d^4}{c^2d}$

.....

(2)

(c) Solve $\frac{5x}{2} > 7$

.....

(2)

(Total for Question 23 is 5 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3F, Q23]

7

Solve $7x - 27 < 8$

.....

(Total for Question 1 is 2 marks)

[Edexcel, GCSE, Summer 2022, Paper 1F, Q23]

8

$-2 \leqslant n < 5$

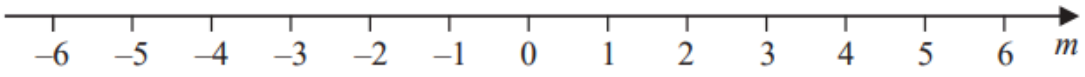
n is an integer.

(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]

9

(a) Solve $\frac{5x}{2} + 3 > 18$

.....

(3)

(b) Factorise $x^2 + 10x + 9$

.....

(2)

(Total for Question 26 is 5 marks)

[Edexcel, GCSE, November 2022, Paper 1F, Q26]