Write your name here Surname	Other	names
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Centre Number	Candidate Number
Mathemat	tics	
Inequalities		
Foundation Tier		Paper Reference 1MA1
You must have: Ruler graduate protractor, pair of compasses, por Tracing paper may be used.		

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided
 - there may be more space than you need.
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

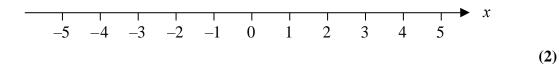
Information

- The total mark for this paper is 26. There are 7 questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
- The marks for each question are shown in brackets
 - use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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



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

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



(*c*) Solve $3x + 5 \ge x + 17$



 $(Total\ for\ Question\ 1\ is\ 7\ marks)$



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

Write down all the possible values of t.

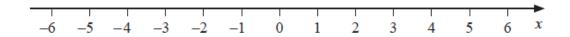
.....

(Total for Question 2 is 2 marks)

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

(2)

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

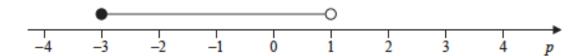


(3)

(Total for Question 3 is 5 marks)



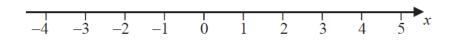
Here is a number line.



Write down the inequality shown on the number line.

(Total for Question 4 is 2 marks)

5 (a) Show the inequality $-2 \le x < 3$ on the number line below.



(b) Solve the inequality 4y + 7 < 16

.....(2)

(2)

(Total for Question 5 is 4 marks)

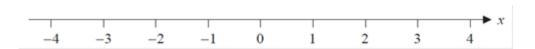


Solve 3(n-1) < 21

.....

(Total for Question 6 is 2 marks)

7 Here is a number line.



(a) On this number line, show the inequality $-2 \le x < 3$

(2)

(b) Solve 5n + 3 > 27

.....

(2)

(Total for Question 7 is 4 marks)

TOTAL MARKS FOR PAPER: 26