

Solving Linear Inequalities

For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **26**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

1 (a) Solve $x - 4 \geq 3$

.....
(1)

(b) Solve $5x < 30$

.....
(1)
(Total for Question 1 is 2 marks)

2 Solve $4x + 3 > 19$

.....
(2)
(Total for Question 2 is 2 marks)

3 Solve $2x - 9 \leq 5$

.....
(2)

(Total for Question 3 is 2 marks)

4 (a) Solve $4p - 3 > 15$

.....
(2)

(b) p is an integer that satisfies $4p - 3 > 15$
Write down the smallest possible value of p .

.....
(1)

(Total for Question 4 is 3 marks)

5 Solve $3x + 8 > x + 2$

.....
(2)

(Total for Question 5 is 2 marks)

6 Solve $5(x + 1) \leq 2x + 17$

.....
(3)

(Total for Question 6 is 3 marks)

7 Solve $\frac{x}{3} + 1 < 5$

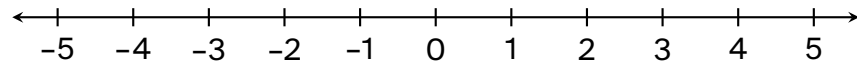
.....
(2)

(Total for Question 7 is 2 marks)

8 (a) Solve $-4 < 2x \leq 6$

.....
(2)

(b) Show your answer to part (a) on the number line below.



(2)
(Total for Question 8 is 4 marks)

9 n is an integer.

$$-1 \leq 3n - 4 < 8$$

Write down all the possible values of n .

.....
(3)
(Total for Question 9 is 3 marks)

- 10** Tom has £20
He buys a magazine for £3.50 and some pens that cost £1.80 each.
Work out the greatest number of pens Tom can buy.

.....
(3)

(Total for Question 10 is 3 marks)
