Non-Calculator

Q1.

(a) Factorise $x^2 - 100$

Answer _______(1)

(b) Solve 7x + 6 > 1 + 2x

Answer____

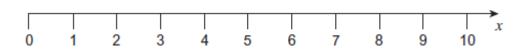
(2) (Total 3 marks)

Q2.

(a) Solve $4x - 7 \le 13$

Answer ______(2)

(b) Show $3 < x \le 8$ on the number line.



(2) (Total 4 marks)

Ω 3	
wυ.	

(a) Show the inequality x > -2 on the number line.

	-1			

(b) Solve the inequality $3x + 5 \le 11$

Answer_____

(Total 3 marks)

(1)

(2)

Q4.

(b)

(a) Solve
$$4(x + 3) = 17$$

Answer *x* = ______

(3)

Answer____

(2) (Total 5 marks)

Q5.

n is an integer.

List the values of n such that $-12 < 3n \le 6$

Solve the inequality 2n - 1 > 5

Answer _____

(Total 2 marks)

Q	6.
	6
	L
	-

 $6 \le 2n$

List the possible integer values of n.

Answer____

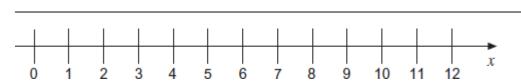
(Total 3 marks)

Q7.

(a) Solve $5x - 11 \ge 29$

Answer _____

(b) Show the solution of 3x < 12 on the number line.



(2) (Total 4 marks)

(2)

Q8.

Solve 3x - 5 > 13

Answer _____

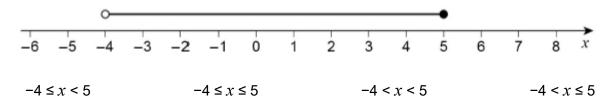
(Total 2 marks)

Calculator

Q9. Wor	x out the greatest integer value of x that satisfies the inequality	3 <i>x</i> + 10 < 1
	Answer	
		(Total 2 marks
10.		
	an integer such that $6 \le 3w < 18$	
X IS	an integer such that $-4 \le x \le 3$	
(a)	Work out all the possible integer values of <i>w</i> .	
	Answer	
/l- \	NA/vita davus tha bimbaat saadibla valua af 2	(3
(b)	Write down the highest possible value of x^2	
	Answer	(1
(c)	Work out the lowest possible value of $w - x$	·
()		
	Answer	
		(2 ₎ (Total 6 marks)
		(Total o marks)
Q11.		
Solv	e $5d - 3 > d + 17$	
	Answer	
		(Total 2 marks)

Q12.

Circle the inequality shown by the diagram.



(Total 1 mark)

Q13.

Solve 20 + w < 3(w + 2)

Answer ______

(Total 3 marks)

Q14.

(a) Solve 5x - 2 < 6

Answer ____

(b) List the whole number values of n that satisfy $1.5 < n \le 6$

Answer _____

(Total 4 marks)

(2)

(2)