## Non-Calculator

Q1.

(a) Factorise  $x^2 - 100$ 

\_\_\_\_\_

Answer \_\_\_\_\_

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

\_\_\_\_\_

Answer \_\_\_\_\_\_

(2) (Total 3 marks)

(1)

Q2.

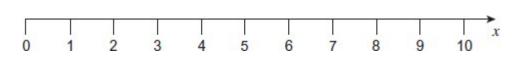
(a) Solve  $4x - 7 \le 13$ 

\_\_\_\_\_

\_\_\_\_\_

Answer \_\_\_\_\_\_

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



(2) (Total 4 marks)

(2)

Q3. (a)	Show the inequality	x > - 2 on the	e number li	ne.				
-	-4 -3 -2	-1	0 1	2	3	4	$\stackrel{\longrightarrow}{x}$	(1)
(b)	Solve the inequality	3 <i>x</i> + 5 ≤						(1)
		Answer						(2) marks)
Q4. (a)	Solve $4(x + 3) = 3$	17						
								.———— (3)
(b)	Solve the inequality	2n - 1 > 5						
		 Answer						
							(Total 5 r	(2) marks)
Q5. <i>n</i> is	an integer.							
List	the values of <i>n</i> such							
								narks)

Q6. 6 ≤ 2	2 <i>n</i> List the possible integer values of <i>n</i> .	
	Answer	 (Total 3 mark:
Q7.		•
(a)	Solve $5x - 11 \ge 29$	
	Answer	(2
(b)	Show the solution of $3x < 12$ on the number line.	
	0 1 2 3 4 5 6 7 8 9 10 11 12	-
		(Total 4 mark
Q8. Solve	e 3x - 5 > 13	
	Answer	
	Answer	Total 2 marks

## <u>Calculator</u>

	Answer	 (Total 2 marks)
$\bigcirc$ 1 $\bigcirc$		
Q10. w is x is	s an integer such that $6 \le 3w < 18$ an integer such that $-4 \le x \le 3$	
(a)	Work out all the possible integer values of w.	
	Answer	(3)
(b)	Write down the highest possible value of $\chi^2$	
	Answer	
(c)	Work out the lowest possible value of $W - X$	
	Answer	(2
		(Total 6 marks)
Q11. Solv	e   5d - 3 > d + 17	
	Answer	 (Total 2 marks)

