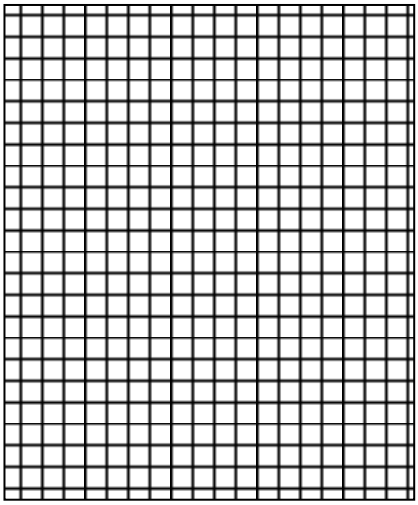
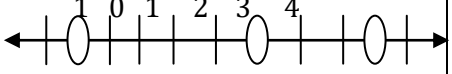
LINEAR INEQUALITIES MARKING SCHEME

1.	$2 \le 3 - x$ $\quad 3 - x < 5$ $-1 \le -x$ $\quad -x < 2$ $1 \ge x$ $\quad x > 2$ $-2 < x \le 1$ or $1 \ge x > -2$ **1999Q2**	B1 2 M
2.	$4-2x < 4x - 9 \Rightarrow 13 < 6x$ $\frac{13}{6} < x$ $4x - 9 < x + 11 \Rightarrow 3x < 20$ $x < \frac{20}{3}$ Integral value of x = (3, 4, 5, 6) **2000Q 6**	M1 B1 B1 3 M
3.	 **2001Q16**	B1 B1 B1 B1 4 M
4	 $-2x < 5-3$ $\quad 4 + 8 \ge 3x$ $-2x < 2$ $\quad 12 \ge 3x$ $x > -1$ $\quad 4 \ge x$ **2002Q8**	B1 B1 A1 3M
5.	$x+y \le 440$ $y \ge 120$ $x \ge 150$	B1 B1 B1 3 M

	2003Q12	
6.	$y > x$ $y < -x+4$ $7 < 3x+3$ **2004 Q15**	
7.	$3-2x < x$ $3 < 3x$ $1 < x$ $x \le \frac{2x+5}{3}$ $3x < 2x+5$ $3x-2x < 5$ or $x < 5$ $\quad 1 < x \le 5$ **2006Q5**	M1 M1 A1 3 M
8.	Let odd integers to: $x, (x + 2), (x + 2 + 2)$ $x + (x + 2) + (x + 2 + 2) > 219$ The numbers are 73, 75, 77 $3x > 213$ $x = 71$ **2010Q5**	M1 A1 B1 3
9.	(a) $2x - 5 > -11$ $x > -3$ $3 + 2x \le 13$ $x \le 5$ Combined $-3 < x \le 5$ (b) -2, -1, 0 ,1, 2, 3, 4,5 **2011Q4**	B1 B1 B1 B1 4