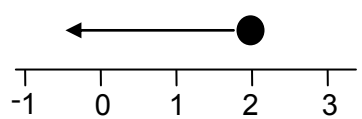
Question			Answer	Marks	Part Marks and Guidance	
1	(a)	(i)	$5 \leq x < 10$	3	Or B2 for $5 \leq x$ or $x < 10$ Or B1 for $5 < x$ or $x \leq 10$	If inequalities written separately condone if the word 'and' written in between but 'or', 'and' or nothing loses 1 mark
		(ii)	5, 6, 7, 8, 9	2	Or B1 for 5, 6, 7, 8, 9, 10	
	(b)		$x < -4$	2	Or B1 for $x > -4$ or $x = -4$	

2	**(a)**		$x > 1.5$ oe isw	2	**M1** for $7x - 3x > 6$ or better Or **SC1** for 1.5 oe seen nfww	
	(b)			2	1 for hollow circle, dot or line/arrow too short	Line/arrow extending past 0 for **2** Condone a line rather than an arrow

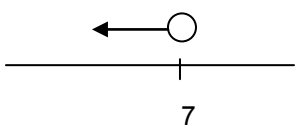
3	**(a)**	**(i)**	$m > -5$	2	**M1** for correct first step eg $2m > -4 - 6$ or better, dividing through by 2 or for ($m =$, $m <$, $<$) -5	Condone x, n etc used instead of m
		(ii)		1FT	Condone solid circle Correct or FT from *their* attempt at an inequality only	Allow any reasonable representation
	(b)		3	1		

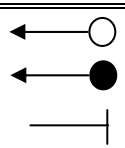
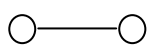
4	**(a)**	$x < 4$	**2**	**B1** for $x = 4$ or **M1** for $5x < 18 + 2$ or better	Condone $\leq$ for 1 or 2 marks
	(b)	$p = 5$, $q = 17$	**3**	**B2** if reversed Or **M1** for either –1 or 5 substituted for x **A1** for either value correct If 0, **SC1** for $p = -4, q = -1$	M1 not lost even if final answer comes from a different method. Correct answer with no working scores 3 $q = 17$ only nfww scores **B2** but $p = 5$ alone scores 0

5	**(a)**	$x \leq 4$ oe	**2**	**M1** for $3x < 10 + 2$ (or better) Or **B1** for 4 oe seen		
	(b)	Correct representation	**1**			

6	(a)		Shading above given line	**1**		For each part shading should extend along length of line but may be of minimal width
	(b)		Dotted line $x + y = 5$ drawn Shading above *their* $x + y = 5$	**1** **1**	At least from (1, 4) to (5, 0)	Condone solid line
	(c)		$x = 1$, $y = 3$	**3**	**B1** for dotted $y = 2$ drawn And **B1FT** for shading below *their* $y = 2$	Condone solid line FT *their* horizontal line

7	**(a)**		$y > 12$ final answer	2	**M1** for $3y > 25 + 11$ or $y > \frac{\text{their } (25+11)}{3}$ or better Or **SC1** for $y = 12$, $y < 12$, $y \leq 12$, $y \geq 12$ or 12	
	(b)		4, 5, 6	2	**M1** for (3 to 4) < w <(6 to 7) or for [$3w$ =] 12, 15, 18 or for two of the three given (and no incorrect values) or for 4, 5, 6 and one incorrect value	

8	**(a)**		$m < 7$ final answer	2	**M1** for $5m < 43 - 8$ or better or ($m =$) 7	Condone other variable eg $x < 7$ Condone embedded answer for **M1** If solved as an equation but 1 error made allow **M1** if answer given as "correct" inequality eg $5m = 43 - 8$ $5m = 30$ $m = 6$ $m < 6$
	(b)			1FT	FT *their* solution provided between 2 and 12	Condone a solid circle or other clear indication Only FT from an inequality Ignore left hand end of arrow unless a circle

9	(a)		$x < 60$ isw	2	**B1** for $\frac{x}{4} < 15$ or $x - 20 < 40$ or for a correct 2nd step leading to $x <$ or $x >$ following an incorrect 1st step Or **SC1** for $x = 60$	eg $\frac{x}{4} - 5 < 1$ $x - 5 < 40$ $x < 45$
	(b)		Any reasonable representation	1FT	Correct or FT *their* (a); mark intention	eg  etc Arrow/line any length but not  However ignore any symbol at ⁻20

10	**(a)**		$7x + 2 < 5x + 25$ oe	**1**	Or better	Condone $\leq$ in both parts Condone other letters used instead of x in both parts Condone $7x + 2b < 5x + 25b$
	(b)		$7x – 5x + b < a$ or $bx < 25 - 2 + ax$ or $7x – 5x = 25 - 2$ or $7x – 5x > 25 - 2$	**M1**	For correctly collecting *their* x terms or *their* constants as an inequality or both as an equation	Follow through any linear inequality with two terms on each side. The first M1 may be implied.
			$2x < 23$ or $x = 11.5$ or $x > 11.5$	**M1**	For correctly collecting *their* x terms and *their* constants as an inequality or correctly solving their inequality but answering as an equation	Allow marks retrospectively if solution attempted in (a) provided it's not contradicted in (b)
			$x < 11.5$	**A1FT**	For correctly solving their inequality	No FT for t & i approach
			11	**A1FT**	And, following at least **M1**, allow **A1FT** for rounding *down* their non-integer solution (or rounding *up* if appropriate from *their* inequality). Allow **SC3** for answer 11	

11			$n > -5$ or $-5 < n$	3	**M2** for $5n - 2n > -13 - 2$ or better Or **M1** for $5n - 2n$ or $-13 - 2$ or better in an inequality, or $13 + 2 > 2n - 5n$ If **0**, then **SC1** for (n =) -5 nfww	If $13 + 2 > 2n - 5n$ allow **M2** only if inequality sign correct after division. Otherwise allow **M1** If solved as an equation **M1** or **M2** can be implied if correct inequality symbol used in answer Condone x used rather than n

12		$x \leq 6$	**2**	**M** for $7x \leq 47 - 5$ or better, or 6 seen	Condone use of $<$ condone use of equal sign for M1 Ignore wrong simplification after correct first step