

1	(b)	$3x - 8x < 3 - 15$ or $15 - 3 < 8x - 3x$		3	M1 accept as equation or with the wrong inequality sign.
		$-5x < -12$ or $12 < 5x$			M1 accept as equation or with the wrong inequality sign.
			$x > 2.4$		A1 Accept $2.4 < x$ or $x > \frac{12}{5}$ oe allow $(-\infty, 2.4)$ award M1 M1 A0 for 2.4 with = sign or no inequality or incorrect inequality sign.

2	c	$4x > 2 - 7$ oe or $x + \frac{7}{4} > \frac{2}{4}$ oe		2	M1 accept as an equation or with wrong inequality sign.
			$x > -1.25$		A1 oe allow $(-1.25, (+)\infty)$ Note: award M1A0 for an answer of -1.25 with no sign or the incorrect sign eg $x = -1.25, x < -1.25$

3	(a)	$-1, 0, 1, 2, 3, 4$	2	B2 B1 for $-2, -1, 0, 1, 2, 3, 4$ or $-1, 0, 1, 2, 3$
	(b)	$y \leq 6$ $x + y \geq 5$ $y \geq x - 3$	2	B2 for 3 correct inequalities B1 for 2 correct inequalities (In both cases allow $<$ in place of \leq , and $>$ in place of \geq)
				Total 4 marks

4	(a)	$2x > 4 - 7$ or $x + 3.5 > 2$		2	M1 For a correct first step allow $2x = 4 - 7$ or $x + 3.5 = 2$ or an answer of $x = -1.5$ or $x < -1.5$ or -1.5
			$x > -1.5$		A1 for $x > -1.5$ oe

5	(a)		$x \leq 2$	1	B1	Allow $2 \geq x$
	(b)		$-2, -1, 0, 1, 2$	2	B2	(B1 for 4 correct values and no incorrect values (eg $-1, 0, 1, 2$) or for 6 values with no more than one incorrect value (eg $-2, -1, 0, 1, 2, 3$))
	(c)	$7t - 2t \leq 31 + 3$ or $5t \leq 34$ or $-3 - 31 \leq 2t - 7t$ or $-34 \leq -5t$ oe		2	M1	t terms on one side and numbers on the other. Condone = rather than \leq or any other sign for this mark.
		<i>Working required</i>	$t \leq 6.8$		A1	oe eg $t \leq \frac{34}{5}$ or $t \leq 6\frac{4}{5}$ or $6.8 \geq t$ Must have correct sign on answer line dep on M1 (sight of correct answer in working space and just 6.8 on answer line gains M1 only)
						Total 5 marks

6	a		Correct number line	2	B2 for a fully correct number line e.g. shaded circle at -2 , unshaded circle at 1 and a line drawn between them B1 for a shaded circle at -2 or an unshaded circle at 1 or circles at -2 and 1 with line in between but shading incorrect
	b		$-3, -2, -1, 0, 1, 2$	2	B2 fully correct values with no extras B1 for 5 correct values and none incorrect or all 6 correct values with no more than one additional incorrect value
					Total 4 marks

8	$-4x \leq 11 - 3$ or $-4x \leq 8$ or $-x \leq 2$ or $3 - 11 \leq 4x$ or $-8 \leq 4x$		2	M1	allow equals sign or condone incorrect inequality sign for M1 only
		$x \geq -2$		A1	allow $-2 \leq x$ SCB1 for x and -2 with an incorrect sign between them or -2 as an answer
				Total 2 marks	

10	(a)	$4y > 12 - 5$		2	M1 Allow $y = \frac{7}{4}$ oe or $y < \frac{7}{4}$
			$y > \frac{7}{4}$		A1 oe

12	(a)		$-3, -2, -1, 0, 1$	2	<p>B2 for $-3, -2, -1, 0, 1$</p> <p>If not B2 then award B1 for 4 correct values and no incorrect values (eg $-3, -2, -1, 0$) or for 6 values with no more than one incorrect value (eg $-4, -3, -2, -1, 0, 1$)</p>
	(b)		$x > -1$	1	B1 accept $-1 < x$
Total 3 marks					

13	(b)		$x \leq 3$	1	B1 allow $3 \geq x$ Allow any letter for x
	(c)	$6-14 > 12w-7w$ oe or $7w-12w > 14-6$ oe		3	M1 Condone = rather than $>$ or any other sign for this mark.
		$-8 > 5w$ or $-5w > 8$ or $-w > \frac{8}{5}$ or $w > -\frac{8}{5}$ or $w = -\frac{8}{5}$ oe			M1 Condone = rather than $>$ or any other sign for this mark.
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$w < -\frac{8}{5}$		A1 oe accept $-\frac{8}{5} > w$ Must have correct sign on answer line dep on M1 (sight of correct answer in working space and just ($w =$) $-\frac{8}{5}$ oe on answer line gains M2 only)

14	(a)	$-4x > 17-9$ or $-4x > 8$ or $9-17 > 4x$ or $-8 > 4x$ or $\frac{9}{4} - x > \frac{17}{4}$ oe or $-\frac{9}{4} + x < -\frac{17}{4}$ oe		2	M1 for a correct first step Condone = rather than $>$ or any other sign for this mark.
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$x < -2$		A1 oe eg $-2 > x$ (sight of correct answer in working space and just ($x =$) -2 on answer line gains M1 only)