Algebra Revision			1
(a) Simplify $5x - 2x$ $3x$	**(b)** Simplify $5a \times 6b$ $30ab$	**(c)** Solve $8x = 48$ $x = 6$	**(d)** Here are the first four terms in a sequence. $5, 9, 13, 17, ..$ (i) Write down the next term in the sequence. 21
(e) Solve $y + 8 = 5$ $y = -3$	**(f)** Find the value of $x^2 + 13$ when $x = -3$ 22	**(g)** Expand $5(x - 7)$ $5x - 35$	(ii) Explain how you got your answer. *Added 4 to the previous term*
(h) Simplify $2x + 6x - y - 3y$ $8x - 4y$	**(i)** $v = u + at$ Find the value of v when $u = 20$, $a = -5$ and $t = 2.5$ 7.5	**(j)** Simplify $p^5 \times p^7$ p^{12}	**(k)** The cost C in pounds of a taxi journey is calculated using the formula: $C = 3.5 + 1.2d$ where d is the distance in km. (i) Find the cost of a journey of $12\ km$. £17.90
(l) Solve $3x - 7 = 11$ $x = 6$	**(m)** Factorise $12 + 3x$ $3(4 + x)$	**(n)** Represent $x < 2$ on the number line below. 	(ii) A taxi journey costs £10.10. Work out the distance travelled. *5.5 km*