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| **Algebra Revision**  | **1** |
| **(a)** | **(b)** | **(c)** | **(d)** |
| Simplify $5x-2x$ | Simplify $5a×6b$ | Solve $8x=48$ | Here are the first four terms in a sequence.$$5, 9, 13, 17,..$$(i) Write down the next term in the sequence.(ii) Explain how you got your answer. |
| **(e)** | **(f)** | **(g)** |
| Solve $y+8=5$ | Find the value of $$x^{2}+13$$when $x=-3$ | Expand $5(x-7)$ |
| **(h)** | **(i)** | **(j)** | **(k)** |
| Simplify $2x+6x-y-3y$ | $$v=u+at$$Find the value of $v$ when $u=20$, $a=-5$ and $t=2.5$ | Simplify $p^{5}×p^{7}$ | 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 $12 km$.(ii) A taxi journey costs $£10.10$. Work out the distance travelled. |
| **(l)** | **(m)** | **(n)** |
| Solve $3x-7=11$ | Factorise $12+3x$ | Represent $x<2$ on the number line below. |