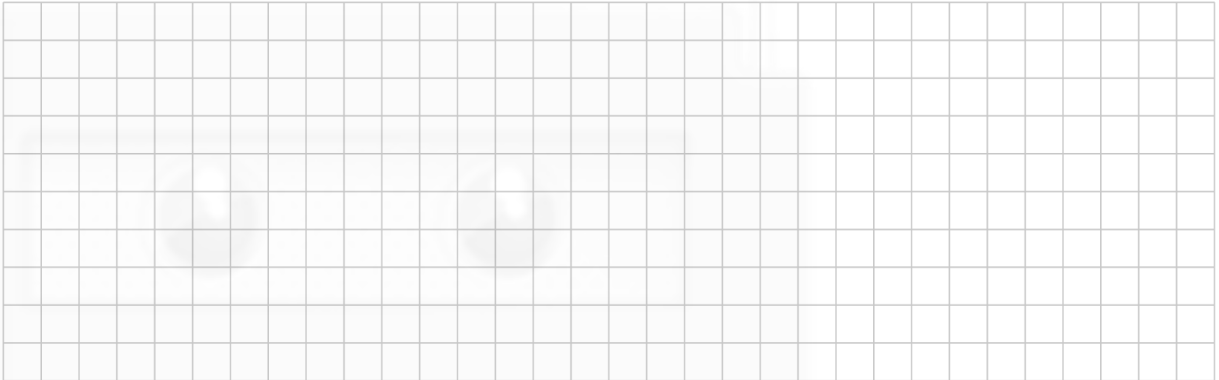
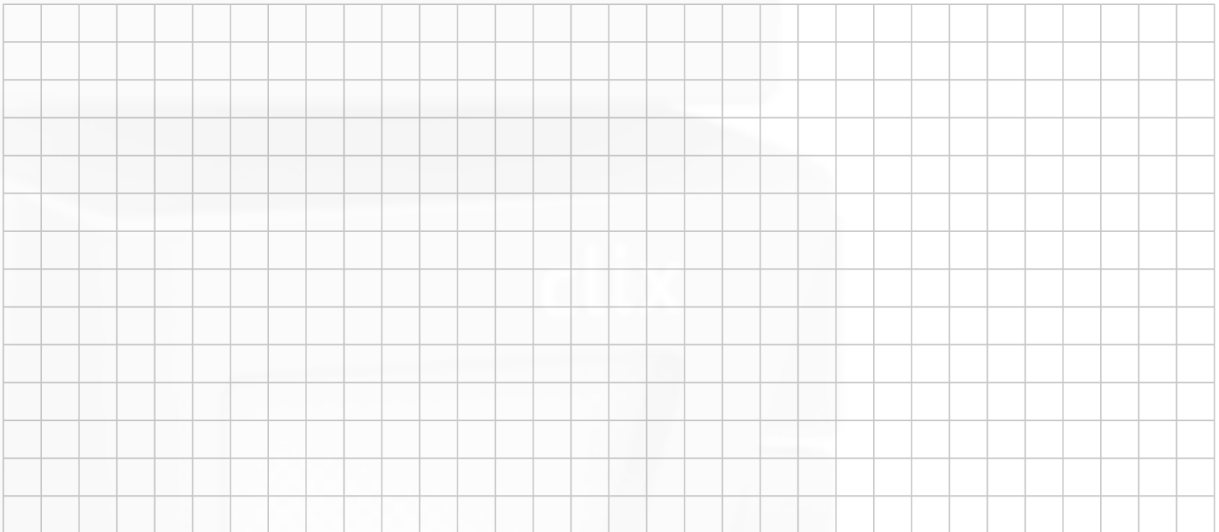


Question 5**(Suggested maximum time: 10 minutes)**


- (a) Work out the value of $3p - 4t^2$, when $p = 6$ and $t = 5$.



- (b) Multiply out and simplify $(2x - 3)(4 - 5x + x^2)$.

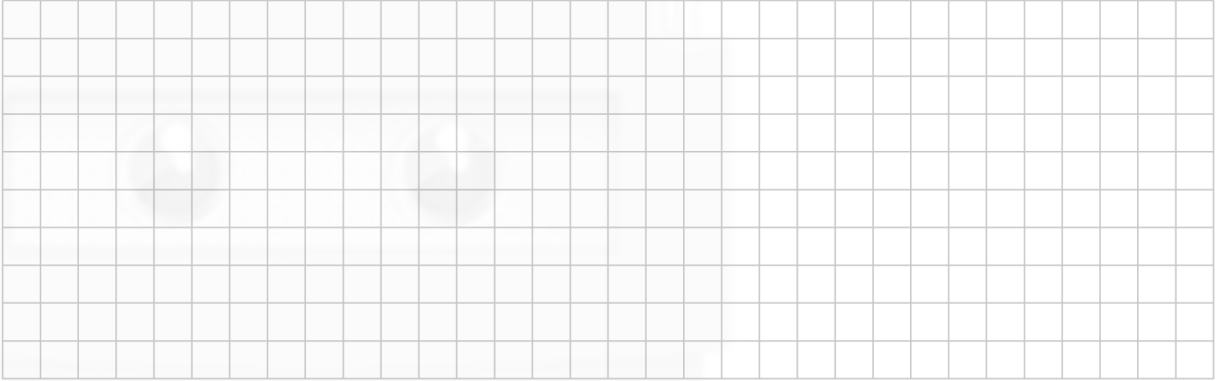


- (c) Factorise fully $10de - df - 5ef + 2d^2$.



Question 12**(Suggested maximum time: 20 minutes)**

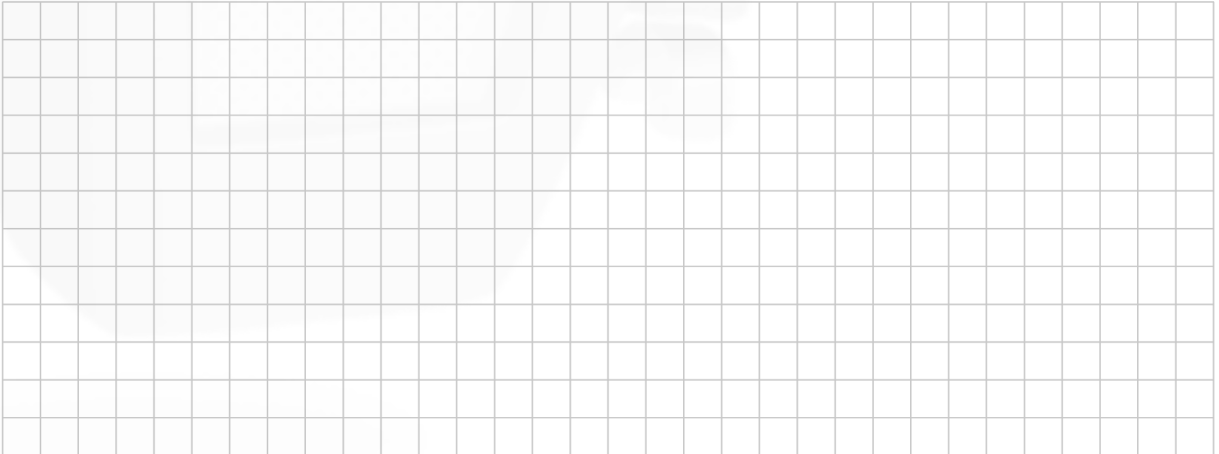
- (a) Factorise $n^2 - 11n + 18$.



- (b) Factorise fully $wy - y - 1 + w$.



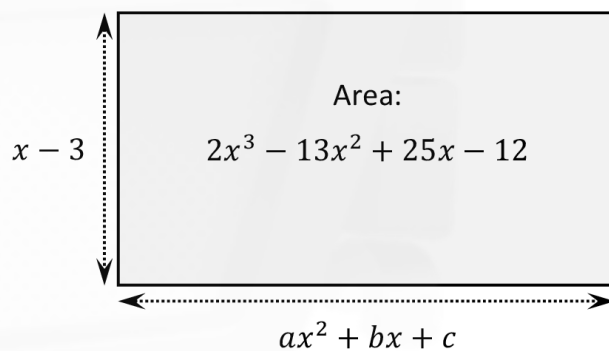
- (c) Find the value of $\frac{5}{3x-2} - \frac{7}{6x-12}$, when $x = 4$.



- (d) Use factorisation to simplify $\frac{4e^2-9}{2e^2+3e-9}$.



- (e) A rectangle has sides of length $x - 3$ units and $ax^2 + bx + c$ units, where $a, b, c \in \mathbb{Z}$. The **area** of the rectangle is $2x^3 - 13x^2 + 25x - 12$ square units. Find the value of a , the value of b , and the value of c .



3

- (b) Factorise fully $ac - ad - bd + bc$.

