	Algebraic Fractions & Factorising					
YEAR	PAPER	QUESTION				
2014	2	Express $\frac{7}{x+5} - \frac{3}{x}$ $x \neq -5$, $x \neq 0$ as a single fraction in its simplest form.	3			
2015	1	Simplify $\frac{x^2 - 4x}{x^2 + x - 20}.$	3			
2015	2	Express $\frac{5t}{s} \div \frac{t}{2s^2}$ in its simplest form.	3			
2016	1	Solve the equation				
		$\frac{2x}{3}-\frac{5}{6}=2x.$				
		Give your answer in its simplest form.	3			
2016	2	Factorise fully $3x^2 - 48$.	2			
2016	2	Express $\frac{3}{x-2} + \frac{5}{x+1} , \qquad x \neq 2 , x \neq -1$				
		as a single fraction in its simplest form.	3			
2017	1	Express $\frac{3}{a^2} - \frac{2}{a}$, $a \ne 0$, as a single fraction in its simplest form.	2			
2017	2	(a) Factorise $4x^2 - 25$. (b) Hence simplify $\frac{4x^2 - 25}{2x^2 - x - 10}$.	1			

2018	2		
		Everess	
		Express	
		$\frac{n}{n^2-4} \div \frac{3}{n-2}, n \neq -2, n \neq 2$	
		as a single fraction in its simplest form.	3
2019	1		
		Solve the equation $\frac{x}{2} - 1 = \frac{3 - x}{5}$.	3
2019	2		
2013	2	Find an expression for the gradient of the line joining point A(6,9) to point B(4 p ,4 p ²).	
		Give your answer in its simplest form.	3
2019	2		
		Express	
		$\frac{4}{x-2} - \frac{3}{x+5}$, $x \neq 2, x \neq -5$	
		as a single fraction in its simplest form.	3
2022	1		
		Express $\frac{4}{x+2} \div \frac{5}{(x+2)^2}$, $x \neq -2$ as a single fraction in its simplest form.	2
2022	2		
		Simplify $\frac{2ab+6a}{b^2-9}$.	3
		b ² -9	