Α	Nat 5 September Revision	38
1	There are 984 pupils on the school roll for Banchory High School. It is forecast that the school roll will decrease by 10% per year for the next three years. What is the expected school roll after three years?	
	Give your answer rounded to the nearest ten.	3
2	Multiply out the brackets and collect like terms $(x + 2)(4x^2 - 5x - 1)$	3
3	Solve the inequality $5 - (2x - 1) < 15$	2
4	B In this diagram:	
	O is the centre of the circle	
	BP is a diameter	
	CPR is a tangent to the circle	
	Angle BCP is 51°	
	P Calculate the size of angle EPR.	
	R	3
5	For a Scottish election a tally was taken of the number of people who voted per	
	The results for a polling station in Arran are as follows	
	22 24 30 35 39 44 45 50 53	
	(a) Calculate the median and semi-interquartile range for this data	2
	At the same time a tally was taken in Dundee. The median number of people voting per hour was 59 and the SIQR was 8.	
	(b) Make two comparisons between the data recorded at both polling stations	2
6	Express $\frac{3}{x} + \frac{4}{x+1}$, $x \neq 0, x \neq -1$ as a single fraction in the simplest form	3
7	Change the subject of the formula $H = \sqrt{2t - a}$ to t	3

