B1	Non-Calculator Paper	
1	Evaluate $3\frac{1}{8} \div \frac{5}{4}$	2
2	Multiply out the brackets and collect like terms $(2x - 5)(3x + 10)$	2
3	At a ski resort in Austria the temperature, in degrees Celsius is recorded each day at noon for the first two weeks in January.	
	-6, -5, -4, -3, -2, -1, 0, 1, 1, 2, 2, 2, 4, 4	
	(a) Calculate the median and semi-interquartile range for these temperatures.	3
	(b) Over the same time period daily temperatures were recorded in a ski resort in Colorado. The median temperature was $-1^{\circ}$ C and the semi-interquartile range was 1.25.	2
	Write two statements to compare the temperatures in both resorts.	
4	Given that $f(x) = 5 - 3x$ . Find b given that $f(b) = 11$	2
5	Factorise $2x^2 - 5x - 12$	2
6	Solve, algebraically, the system of equations	
	3x + 5y = 5 $2x + 3y = 4$	3
7	Express $x^2 - 4x - 3$ in the form $(x - a)^2 + b$	2
8	Simplify $\frac{x^2 - 25}{(x-5)^2}$	2
9	Simplify $m^5 \times \sqrt{m}$	2
10	In the triangle PQR:	
	• PQ is 5 centimetres • QR is 7 centimetres • $\cos Q = \frac{1}{5}$ • $\cos Q = \frac{1}{5}$	
	Calculate the length of side PR. Give your answer as a simplified surd in the form $a\sqrt{b}$ $Q = \frac{1}{7 \text{ cm}}$	3

