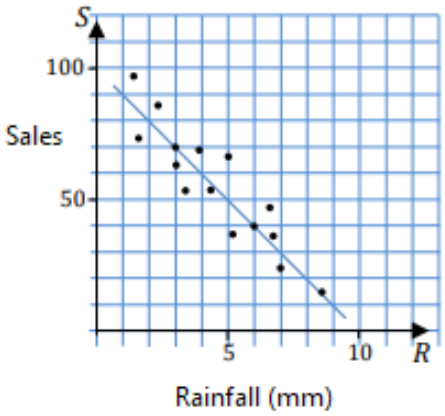
C1	Non-Calculator Paper	
1	Evaluate $6\frac{1}{5} - \frac{3}{4}$ Give your answer in the simplest form.	**2**
2	Expand and simplify $(x-3)^2 + 15$	**2**
3	Solve, algebraically, the system of equations $4x + 5y = 22$ $6x + y = 7$	**3**
4	 Rainfall (mm) Sales from an ice cream van were recorded through the summer. The graph shows the number of ice creams sold S, compared to the amount of rainfall R mm. 70 ice creams were sold on a day with 3 mm of rainfall. 40 ice creams were sold on a day with rainfall of 6 mm. (a) Find the equation of the line of best fit in terms of S and R. Give your equation in its simplest form. (b) Use the answer from part (a) to estimate the number of ice creams sold on a day with 7 mm of rainfall.	**3** **1**
5	Solve, algebraically, the inequation $5 - (x-3) \leq x + 10$	**3**
6	(a) Factorise $x^2 - 10x + 24$ (b) Hence simplify $\frac{x^2-10+24}{x^2-36}$	**1** **3**
7	Change the subject of the formula $y = 3\sqrt{h} + a$ to h	**3**
8	Evaluate $\sqrt{400} - \sqrt{100}$	**2**
9	Simplify $\frac{12v^3w^4}{3v^2w^{-2}}$	**3**
10	Determine the nature of the roots of the function $f(x) = 4x^2 - 4x + 1$	**2**
	28 marks	