14th April	Higher Plus 5-a-day
Show that the equation $x^3 + 5x = 4$ has a solution between x = 0 and x = 1	
Show that the equation $x^3 + 5x = 4$ can be rearranged to give $x = \frac{4}{5} - \frac{x^3}{5}$	
Starting with $x_0 = 0$ use the iteration formula $x_{n+1} = \frac{4}{5} - \frac{x_n^3}{5}$ three times to find an estimate for the solution of $x^3 + 5x = 4$	
Trevor is a car salesman. He bought a car for £5000. Currently he is holding a sale with 35% off the price of all cars. Trevor wants to sell the car so that he makes a 10% profit on the price he paid.	How much should Trevor advertise the car for?
Here are the first 5 terms of a quadratic sequence 8 15 24 35 48 Find an expression, in terms of n, for the nth term of this quadratic sequence.	