Name: _____ 5-a-day Core 1

3rd April

Corbettmaths

A straight line L1 has equation $x - 4y = 2$ The straight line L2 is perpendicular to L1 and passes through the point (-3, 2)	Find the equation for L2 in the form $y = mx + c$
Solve the inequality $x^2 + 7x + 10 > 0$	
A toy shop begins selling a new toy. In the first week the toy shop sells £1100 of the toy. It is expected that sales will decrease by £y each week. In week 2, the toy shop sold £(1100 - y) of the toy and in week 3 £(1100 - 2y) of the toy and so on.	Given the total sales of the toy over the first 12 weeks is £7920. Find y
Find the expected sales in week 12.	
Solve $(x + 3)^4 + 6(x + 3)^2 - 8 = 0$	