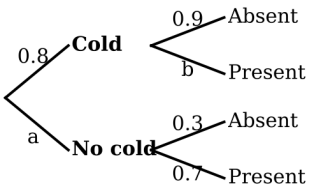
Day 111	A Tier 10-a-day
1 (a) Write down all the prime numbers between 70 and 84. (b) Write 221 as the product of two prime numbers.	
2 Ravi and Ben share 104 football cards in the ratio 5 : 8. How many more football cards does Ben get than Ravi?	
3 $f(x) = -3x - 1$ $g(x) = x^2 + 2$ (a) Find g(4) (b) Find gf(x). Expand and simplify your answer.	
4 Convert 2.75 m^2 into cm^2.	
5 Change 200 mm^2 to cm^2.	

Day 111	A Tier 10-a-day
6 Work out $(4.8 \times 10^6) - (9.1 \times 10^3)$ Give your answer in standard form.	
7 The tree diagram shows probabilities for two events. (a) Work out the values of a and b. (b) Work out the probability that Sam is absent from school.  	
8 $x_{n+1} = \sqrt{4x_n + 10}$ $x_0 = 2$ Work out the values of x_1, x_2 and x_3. Give your answers correct to 3 decimal places. (Calculator)	
9 A regular hexagon and a square share the side AB and are on opposite sides of it. The two shapes meet at the point A. Work out the size of the angle at A that is not inside either shape.	
10 Solve $x^2 + x - 12 \geq 0$	