Day 35	B Tier 10-a-day
1 An equilateral triangle has sides of length (4x + 8) cm. The perimeter of the triangle is 120 cm. Work out the value of x.	
2 The probability that a drawing pin lands point up is $\frac{1}{4}$. Work out the probability that a drawing pin does not land point up.	
3 Two rectangles are joined to make a shape. The first is 11 cm by 10 cm. The second is 13 cm by 5 cm. Work out the total area of the shape.	
4 Solve $9 - 4y = -3$	
5 The exchange rate is £1 = €1.18. (Calculator) (a) Change £500 to euros. (b) Change €118 to pounds (£).	

Day 35	B Tier 10-a-day
6 Maya invests £500 in an account paying 2% compound interest per year. (Calculator) Work out the value of her investment after 2 years.	
7 (a) Write $\frac{29}{50}$ as a decimal. (b) Write $\frac{5}{11}$ as a recurring decimal. For part (b), write down the first 8 decimal places and say which digits repeat.	
8 In a bag of counters, the ratio of white to black is 3 : 4. The ratio of black to green is 2 : 3. Write down the ratio white : black : green.	
9 Line L has equation $y = -x - 3$ Line M is parallel to line L and passes through the point $(-2, -1)$. Find the equation of line M.	
10 Dev invests £2000 for 6 years. The account pays 2.5% simple interest per year. (a) Work out the interest earned each year. (b) Work out the total amount in the account after 6 years.	