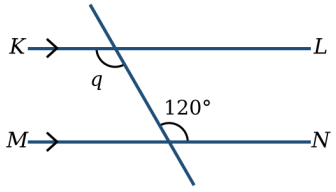
Day 125	B Tier 10-a-day
1 Work out the value of $3t - 1$ when $t = 9$	
2 Work out (a) $(5 + 9) \times 7 - 14$ (b) $5 \times (7 + 35) \div 6$	
3 Solve $8y + 16 = 80$	
4 In the diagram, KL is parallel to MN. (a) Work out the size of angle q. (b) Give a reason for your answer. The diagram is not drawn accurately. 	
5 £5,000 is invested for 2 years at 2% compound interest per year. (Calculator) Work out the total interest earned.	

Day 125	B Tier 10-a-day
6 The population of a town is 5000. (Calculator) It increases by 6% each year. Work out the population after 2 years. Give your answer to the nearest whole number.	
7 An equilateral triangle has sides of length (5x + 8) m. The perimeter of the triangle is 204 m. Work out the value of x.	
8 33 households were asked. 19 of them have a cat and 16 of them have a dog. 10 of them did both. (a) How many did neither? (b) One is chosen at random. Find the probability that they have a cat but do not have a dog.	
9 In a sale, the price of a sofa is reduced by 30%. (Calculator) Two weeks later it is reduced by a further 20% of the new price. The final price is £280. Work out the original price of the sofa.	
10 There are 200 bus passengers. $\frac{3}{10}$ of them are adults and the rest are children. $\frac{4}{5}$ of the adults and $\frac{3}{5}$ of the children have a pass. One person is chosen at random. Work out the probability that they have a pass.	