Day 109	B Tier 10-a-day
1 The first term of a sequence is 5. The term-to-term rule is: double the term, then add 3. Work out the 5th term.	
2 8 tickets cost £4.80. (a) Work out the cost of 4 tickets. (b) How many tickets can be bought for £4.80?	
3 PQRS is a kite with PQ = PS and RQ = RS. Angle SPQ = 64° and angle QRS = 68°. Work out the size of angle PQR.	
4 I think of a number. I divide it by 3 and then add 4. The answer is 8. Work out my number.	
5 George invests £800 for 4 years. The account pays 3.5% simple interest per year. (a) Work out the interest earned each year. (b) Work out the total amount in the account after 4 years.	

Day 109	B Tier 10-a-day
6 Zain, Chloe and Ben share 130 sweets in the ratio 1 : 6 : 3. Work out how many Zain gets.	
7 A rectangle has length (4x + 6) cm and width (x + 3) cm. The perimeter of the rectangle is 138 cm. (a) Work out the value of x. (b) Work out the area of the rectangle.	
8 A cafe sells cakes and drinks. All cakes cost the same and all drinks cost the same. 2 cakes and 3 drinks cost £11. 1 cake and 3 drinks cost £7. Work out the cost of one cake and the cost of one drink.	
9 A fuel tank is $\frac{2}{5}$ full. 38 litres of fuel are added. The fuel tank is now $\frac{1}{2}$ full. Work out the capacity of the fuel tank.	
10 The exchange rate is £1 = €1.15. (Calculator) (a) Change £150 to euros. (b) Change €138 to pounds (£).	