Day 359	B Tier 10-a-day
1 Here are the prices of some sandwiches in pence. 166, 323, 202, 198, 357, 191 Work out the mean.	
2 A rectangular wall measures 13 m by 12 m. A rectangle measuring 5 m by 6 m is cut out. Work out the area that is left.	
3 x is an integer. Write down the greatest value of x for which $x < 2.5$	
4 The ratio of adults to children at a concert is 2 : 7. What fraction of them are adults?	
5 Solve $6(x + 2) = 3(x + 12)$	

Day 359	B Tier 10-a-day
6 A is the point (1, 3) and B is the point (−14, 23). (a) Work out the coordinates of the midpoint of AB. (b) Work out the length of AB.	
7 (a) Write $\frac{3}{5}$ as a decimal. (b) Write $\frac{4}{15}$ as a recurring decimal. For part (b), write down the first 8 decimal places and say which digits repeat.	
8 Solve $x^2 + x - 30 = 0$	
9 Two buses leave a bus station at 08:45. One bus leaves every 24 minutes. The other bus leaves every 8 minutes. At what time do both buses next leave together?	
10 A boat sails 12 m on a bearing of 270° from P to Q, then 5 m on a bearing of 000° to R. (Calculator) (a) Work out the distance PR. (b) Work out the bearing of R from P. Give your answers correct to 1 decimal place. 	