Day 199 **B Tier 10-a-day**

1 Solve n + 3 = 11

2 How many lines of symmetry does a regular nonagon have?

3 Find the (a) highest common factor (HCF), (b) lowest common multiple (LCM) of 35 and 20.

4 The bearing of M from L is 139°.
Work out the bearing of L from M.

5 The table shows the numbers of brothers and sisters of some students.
Work out the mean.

Siblings	2	3	4	5
Frequency	1	4	2	6

Day 199	B Tier 10-a-day
6 $y = 3x^2 - 4x - 4$ Work out the value of y when x = 3	
7 Work out (a) 45% of £500 (b) 65% of 260	
8 Show that 6(2n + 3) + 6(2n + 9) is always a multiple of 24, where n is a whole number.	
9 A rectangle is 4 m long and 6 m wide. It is enlarged by scale factor 2. (a) Write down the length and width of the enlarged rectangle. (b) Work out the perimeter of the enlarged rectangle.	
10 A cyclist travels 9 km in 45 minutes. Work out its average speed in km per hour.	