Day 148	B Tier 10-a-day
1 A right-angled triangle has one angle of 67°. Work out the size of the other acute angle.	
2 Here are the first four terms of a sequence. 1, 5, 13, 25 (a) Write down the next two terms. (b) Describe the rule for continuing the sequence.	
3 Work out 168 × 36	
4 x is an integer. Write down the greatest value of x for which $x < 6.8$	
5 AB is a straight fence 6 m long. A path is always exactly 1 m from the fence AB, on both sides, and also goes round each end. Describe the shape of the path.	

Day 148	B Tier 10-a-day
6 The number of members of a club goes from 200 to 150. Work out the percentage decrease.	
7 In a test, the mean mark of 6 Year 10 is 63. The mean mark of 4 Year 11 is 53. Work out the mean mark of all 10 students.	
8 An isosceles trapezium has parallel sides of length 21 cm and 11 cm. Each sloping side is 13 cm long. (a) Work out the perpendicular height of the trapezium. (b) Work out the area of the trapezium.	
9 A bag contains 5 black socks and 2 white socks. Nia takes one at random, replaces it, then takes a second. Work out the probability that the two are different colours.	
10 A kite flies at 22 metres per second. Work out this speed in kilometres per hour.	