Day 147	B Tier 10-a-day
1 Write these in order of size. Start with the smallest. 0.8, $\frac{11}{20}$, 0.64, 0.5	
2 What is the order of rotational symmetry of a regular pentagon?	
3 Work out (a) $\frac{3}{10} \times \frac{9}{10}$ (b) $\frac{4}{5} \div \frac{2}{3}$ Give each answer in its simplest form.	
4 ABCD is a rhombus. Angle DAB = 42°. (a) Write down the size of angle BCD. (b) Work out the size of angle ABC.	
5 $g(x) = 2x^2 - 2$ (a) Work out g(3) (b) Work out g(−2)	

Day 147	B Tier 10-a-day
6 A stage is made from a rectangle and a semicircle. (Calculator) The rectangle is 4 m wide and 7 m high. The diameter of the semicircle is 4 m. (a) Work out the area of the shape. (b) Work out the perimeter of the shape. Give each answer correct to 1 decimal place.	
7 In a test, the mean mark of 15 Class A is 44. The mean mark of 10 Class B is 69. Work out the mean mark of all 25 students.	
8 Solve $x^2 + 3x = 0$	
9 Nia and Femi share some money in the ratio 3 : 2. Nia gets £3 more than Femi. How much money does Femi get?	
10 The cumulative frequency graph shows the times taken by 40 students to complete a puzzle. (a) Use the graph to estimate the median. (b) Work out an estimate for the interquartile range. 	