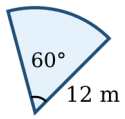
Day 113	B Tier 10-a-day
1 Work out the size of one interior angle of a regular polygon with 15 sides.	
2 Here is a formula. $v = u + at$ Work out the value of v when u = 4, a = 6 and t = 4	
3 There are 150 visitors. $\frac{3}{5}$ of them are men and the rest are women. $\frac{1}{5}$ of the men and $\frac{3}{5}$ of the women buy a drink. One person is chosen at random. Work out the probability that they buy a drink.	
4 Write 396 as a product of its prime factors. Give your answer in index form.	
5 A straight line has equation $y = 7x + 9$ (a) Write down the gradient of the line. (b) Write down the equation of a line that is parallel to this line and passes through the point $(0, -1)$.	

Day 113	B Tier 10-a-day
6 A new car is worth £8,000. (Calculator) Each year its value falls by 20% of its value at the start of that year. Work out the value of the car after 2 years.	
7 The diagram shows a sector of a circle with radius 12 m and angle 60°. Work out the length of the arc of the sector. Give your answer in terms of π. The diagram is not drawn accurately. 	
8 In a test, the mean mark of 20 boys is 55. The mean mark of 5 girls is 70. Work out the mean mark of all 25 students.	
9 The mass of a parcel is 0.43 kg, correct to 2 decimal places. Write down the error interval for the mass. Use the letter m.	
10 The length of a rectangle is 29 cm and its width is 15 cm. Both measurements are correct to the nearest cm. Work out the upper bound for the perimeter of the rectangle.	