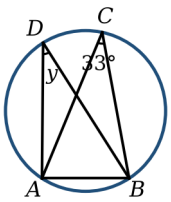
Day 23	B Tier 10-a-day
1 Line L has equation $y = -4x + 6$ Line M is parallel to line L and passes through the point (3, 2). Find the equation of line M.	
2 A runner travels 4 km in 30 minutes. Work out its average speed in km per hour.	
3 Use the fact that $31 \times 36 = 1116$ to work out (a) 310×3600 (b) $1116 \div 3.1$	
4 A lorry travels at a constant speed of 60 km/h for 10 minutes. How far does it travel?	
5 Chloe bought a bike for £500 and sold it for £800. Work out the percentage profit.	

Day 23	B Tier 10-a-day
6 A, B, C and D are points on a circle. Angle ACB = 33°. Work out the size of angle ADB, marked y. Give a reason for your answer. The diagram is not drawn accurately.  	
7 Make l the subject of the formula P = 2l + 2w	
8 27 households were asked. 18 of them have a cat and 7 of them have a dog. 2 of them did both. (a) How many did neither? (b) One is chosen at random. Find the probability that they have a cat but do not have a dog.	
9 An isosceles trapezium has parallel sides of length 25 m and 9 m. Each sloping side is 10 m long. (a) Work out the perpendicular height of the trapezium. (b) Work out the area of the trapezium.	
10 In a sale, the price of a sofa is reduced by 20%. (Calculator) Two weeks later it is reduced by a further 10% of the new price. The final price is £72. Work out the original price of the sofa.	