Day 182	B Tier 10-a-day
1 A gym charges a joining fee of £5 and £13 for each month of membership. (a) Work out the total cost for 9 months. (b) The total cost is £96. Work out the number of months.	
2 How many lines of symmetry does an equilateral triangle have?	
3 Here are the number of books read by some students. 24, 27, 17, 11, 15 (a) Find the median. (b) Work out the range.	
4 Write each answer as a single power of 10. (a) $10^7 \times 10^4$ (b) $10^{11} \div 10^4$	
5 Tom invests £500 for 5 years at 6% simple interest per year. Work out the total interest he earns.	

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6 Work out the value of this expression. (Calculator) $\frac{9.3}{1.8} + \frac{4.5}{1.8}$ Give your answer correct to 2 significant figures.	
7 Solve $11 - 2x = 4x - 25$	
8 Maya invests £2,000 in an account paying 5% compound interest per year. (Calculator) Work out the value of her investment after 2 years.	
9 An isosceles trapezium has parallel sides of length 23 m and 5 m. Each sloping side is 15 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 40%. (Calculator) Two weeks later it is reduced by a further 5% of the new price. The final price is £42.75. Work out the original price of the sofa.	