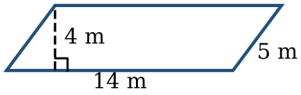
Day 234	B Tier 10-a-day
1 Here is a parallelogram. Find the area of the parallelogram. The diagram is not drawn accurately.  	
2 Expand and simplify $2(x - 5) - 6(x - 1)$	
3 Electricity costs 12p per unit. There is also a standing charge of £10. Work out the total bill for 350 units.	
4 A coat costs £300. In a sale the price is reduced by 25%. (a) Work out the new price. (b) A car is worth £1500. Its value goes down by 30% in a year. Work out its new value.	
5 I think of a number. I multiply it by 2 and then subtract 11. The answer is 11. Work out my number.	

Day 234	B Tier 10-a-day
6 The price of a laptop is £80. The price is first reduced by 25%, then the new price is increased by 30%. (a) Work out the final price. (b) Work out the overall percentage decrease in the price.	
7 An isosceles trapezium has parallel sides of length 31 m and 13 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.	
8 Maya invests £1,000 in an account paying 10% compound interest per year. (Calculator) Work out the value of her investment after 2 years.	
9 Work out (a) 3^{-3} (b) $7^{0} + \sqrt{25}$	
10 A bag contains 7 green beads and 5 yellow beads. Leo takes one at random, replaces it, then takes a second. Work out the probability that both are green.	