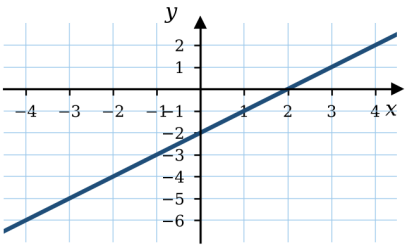
Day 254	B Tier 10-a-day
1 At night, the temperature in Moscow is −8°C. (a) The temperature rises by 8°C. Work out the new temperature. (b) The highest temperature one day was 15°C and the lowest was −5°C. Work out the difference.	
2 Solve $\frac{5x + 7}{4} = 3$	
3 Here are the numbers of runs scored by a batter. 25, 25, 27, 11, 13, 23, 12 (a) Find the median. (b) Work out the range.	
4 A straight line has equation $y = -4x - 4$ (a) Write down the coordinates of the point where the line crosses the y-axis. (b) Work out the coordinates of the point where the line crosses the x-axis.	
5 A box is a cuboid measuring 25 cm by 15 cm by 25 cm. Small cubes of side 5 cm are packed into the box. How many small cubes fit in the box with no gaps?	

Day 254	B Tier 10-a-day
6 Write these in order of size. Start with the smallest. 35%, $\frac{1}{4}$, 80%, 85%	
7 Maya earns £8 per hour for the first 32 hours worked each week. Any extra hours are paid at time and a half. Last week Maya worked 34 hours. Work out Maya's total pay for last week.	
8 The diagram shows a straight line. (a) Work out the gradient of the line. (b) Find the equation of the line. 	
9 A bag contains 6 green beads and 3 yellow beads. Amy takes one at random, replaces it, then takes a second. Work out the probability that both are green.	
10 Triangle ABC is isosceles with AB = AC = 10 cm. (Calculator) The base BC = 14 cm. Work out the size of angle ABC. Give your answer correct to 1 decimal place.	