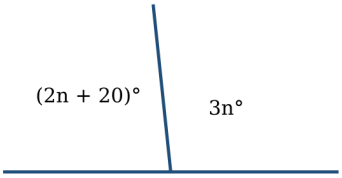
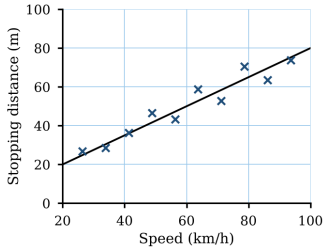
Day 64	B Tier 10-a-day
1 The diagram shows 2 angles on a straight line. Work out the value of n. The diagram is not drawn accurately.  	
2 Solve 5a + 11 = 36	
3 The probability that Amy is late for school on any day is 0.6. The probability that Ben is late on any day is 0.2. Whether each is late is independent of the other. Work out the probability that at least one of them is late on Monday.	
4 Simplify fully (a) $(4y^2)^2$ (b) $5p^2 \times 6p^3$	
5 Write these in order of size. Start with the smallest. $\frac{4}{5}, \frac{29}{40}, \frac{2}{5}, \frac{3}{8}$	

Day 64	B Tier 10-a-day
6 A triangle has sides of length 6 mm, 8 mm and 9 mm. Is the triangle right-angled? You must show your working.	
7 A fuel tank is $\frac{1}{4}$ full. 75 litres of fuel are added. The fuel tank is now $\frac{1}{2}$ full. Work out the capacity of the fuel tank.	
8 Solve $x^2 - 121 = 0$	
9 The scatter graph shows information about speed and stopping distance. A line of best fit is drawn. (a) Describe the correlation. (b) Use the line of best fit to estimate the stopping distance when speed is 44. 	
10 In a bag of counters, the ratio of black to green is 4 : 3. The ratio of green to white is 6 : 1. Write down the ratio black : green : white.	