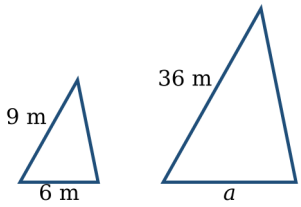
Day 119	B Tier 10-a-day
1 A bag contains 2 black pens, 8 blue pens and 7 red pens. One is taken at random. Find the probability that it is not red.	
2 A rectangle is 6 cm long and 4 cm wide. It is enlarged by scale factor 1.5. (a) Write down the length and width of the enlarged rectangle. (b) Work out the perimeter of the enlarged rectangle.	
3 Work out (a) $\frac{1}{8} + \frac{4}{5}$ (b) $\frac{3}{8} - \frac{1}{9}$ Give each answer in its simplest form.	
4 A theme park sells adult tickets and child tickets. 3 adult tickets and 2 child tickets cost £50. 4 adult tickets and 2 child tickets cost £64. Work out the cost of one adult ticket and the cost of one child ticket.	
5 Write these numbers in order of size. Start with the smallest. 5.9×10^2, 0.00049, 5.4×10^5, 81,000	

Day 119	B Tier 10-a-day
6 The probability that a biased dice lands on a six is 40%. Work out how many times you would expect this to happen in 100 rolls of the dice.	
7 Solve $8x - 8 = -3$ Give your answer as a fraction in its simplest form.	
8 The two triangles are similar. (a) Write down the scale factor of the enlargement from the smaller triangle to the larger triangle. (b) Work out the value of a. The diagram is not drawn accurately. 	
9 A bag contains 7 green beads and 2 yellow beads. Holly takes one at random and does not replace it, then takes a second. Work out the probability that the two are different colours.	
10 There are 9.8×10^3 fish in a lake. The number doubles every day. How many are there after 5 days? Give your answer in standard form.	