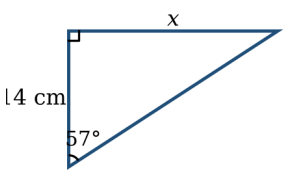
Day 57	B Tier 10-a-day
1 A rectangular pond is 9 m by 7 m. There is a path of width 2 m all the way round the outside of the pond. Work out the area of the path.	
2 Here are four digit cards. 3 1 8 6 Use all four cards to make the largest possible even number.	
3 A coin is thrown 200 times. It lands on heads 92 times. (a) Work out the relative frequency of heads. (b) Is the coin fair? Give a reason.	
4 Work out $3\frac{1}{5} - 1\frac{7}{8}$ Give your answer as a mixed number.	
5 Find the length of x. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	

Day 57	B Tier 10-a-day
6 37 households were asked. 19 of them have a cat and 24 of them have a dog. 10 of them did both. (a) How many did neither? (b) One is chosen at random. Find the probability that they have a cat but do not have a dog.	
7 The angles of a triangle are x°, 2x° and (2x + 25)°. Work out the size of the largest angle.	
8 A block of steel is a cuboid measuring 4 cm by 10 cm by 6 cm. The density of steel is 8 g/cm^3. Work out the mass of the block.	
9 The mean of 5 numbers is 14. Four of the numbers are 10, 18, 13, 15. Work out the fifth number.	
10 Here is an iteration formula. $x_{n+1} = 6 + \frac{10}{x_n}$ $x_0 = 5$ (a) Work out x_1 (b) Work out x_2. Give your answer correct to 3 decimal places. (Calculator)	