Day 40 **B Tier 10-a-day**

1 The table shows the books read by each member of a club in a month.
(a) Write down the mode.
(b) Work out the median.

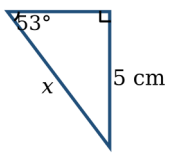
Books	2	3	4	5	6	7
Frequency	9	4	10	9	7	7

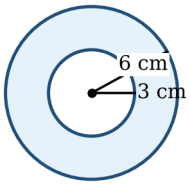
2 Here is a list of numbers.
67, 71, 50, 47, 75, 17, 62, 2
From the list, write down
(a) an odd number that is not prime
(b) a factor of 60

3 I think of a number.
I multiply it by 5 and then subtract 6.
The answer is 29.
Work out my number.

4 The mean of 5 numbers is 11.
Four of the numbers are 7, 15, 10, 12.
Work out the fifth number.

5 Work out the length of x. (Calculator)
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



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6 Solve $5(x - 7) = 0$	
7 The diagram shows two circles with the same centre. The radius of the larger circle is 6 cm. The radius of the smaller circle is 3 cm. Work out the area of the shaded region. Give your answer in terms of π. The diagram is not drawn accurately. 	
8 Show that $(n + 5)^2 - (n - 5)^2$ is a multiple of 20 for any whole number n.	
9 In a pie chart showing the answers of 36 people, the angle for car is 80°. How many people chose car?	
10 In a sale, the price of a sofa is reduced by 20%. (Calculator) Two weeks later it is reduced by a further 5% of the new price. The final price is £76. Work out the original price of the sofa.	