Day 343 **B Tier 10-a-day**

1 Write down the number of faces and vertices of a hexagonal-based pyramid.

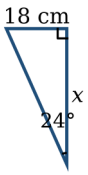
2 Here are four digit cards.
5 2 8 9
Use all four cards to make the largest possible number.
Work out the difference between the largest and smallest possible numbers.

3 Isla and Priya share 30 cards in the ratio 1 : 2.
Work out how many Priya gets.

4 Solve $6x + 9 = 5x + 18$

5 The table shows the numbers of brothers and sisters of some students.
Work out the mean.

Siblings	0	1	2	3	4
Frequency	3	1	2	2	7

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6 Solve the simultaneous equations $3x + y = 21$ $2x - y = 9$	
7 Calculate the length of x. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately.  	
8 Region D has a population of 250. Its area is 10 km^2. Work out the population density. Give your answer in people per km^2.	
9 Write these numbers in order of size. Start with the smallest. 2.8×10^2, 0.42, 3.5×10^1, 0.0005	
10 Line L has equation $y = -x + 5$ Line M is parallel to line L and passes through the point $(-1, 5)$. Find the equation of line M.	