

MEI Maths Item of the Month

July 2013

Fair share

The numbers 1-10 are split into two groups of 5 such that

$$a_1 > a_2 > a_3 > a_4 > a_5$$

and

$$b_1 < b_2 < b_3 < b_4 < b_5.$$

Show that, for any split, $|a_1 - b_1| + |a_2 - b_2| + |a_3 - b_3| + |a_4 - b_4| + |a_5 - b_5| = 25$.

e.g.

$$10 > 7 > 6 > 3 > 1$$

$$2 < 4 < 5 < 8 < 9$$

$$|10 - 2| + |7 - 4| + |6 - 5| + |3 - 8| + |1 - 9| = 25$$

Will this work for any list of numbers of size $2n$?

i.e.

$$|a_1 - b_1| + |a_2 - b_2| + \dots + |a_n - b_n| = n^2$$

Solution

Only one value from 1-5 will appear in any column (and consequently only one value from 6-10). To show this is true consider the case where two numbers from 1-5 appear in the same column, e.g.

			3	
			5	

The remainder of the numbers from 1-5 would have to go to the right of 3 or the left of 5 but there are only three numbers to fill four places and therefore this is not possible. Similarly if no numbers from 1-5 appeared in a column this means that two of the numbers from 6-10 appear in a column which is also not possible by symmetry. Hence only one value from 1-5 will appear in any column.

Each value of $|a - b|$ can be written as $a - b$, if a is larger, or $b - a$ if b is larger.

e.g. $|10 - 2| + |7 - 4| + |6 - 5| + |3 - 8| + |1 - 9| = 10 - 2 + 7 - 4 + 6 - 5 + 8 - 3 + 9 - 1$

As each value of $|a - b|$ contains one value from 1-5 and one value from 6-10 this can be rewritten as:

$$\begin{aligned} 10 + 9 + 8 + 7 + 6 - 5 - 4 - 3 - 2 - 1 &= 40 - 15 \\ &= 25 \end{aligned}$$

The above result can be generalised for any list of numbers of size $2n$.

Mei Maths Mjune 2013

Marco Casella



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