



Problem of the Week

Problem E

A Grand Sum

In a certain sequence, the first term is 26. If a term in this sequence is even, then the next term will be half the value of that term. If a term in this sequence is odd, then the next term in the sequence is one more than three times that term. By following these rules, the first three terms of this sequence are 26, 13 and 40.

If the sequence has n terms and the sum of these terms is a 4-digit number. How many different possible values of n are there?

26, 13, 40, ...

