Answer on Question 50078, Math, Other   A book has some page missing consecutively. The sum of the page number of missing pages is 976. How many pages are missing there?

Solution

We can notice, that

$$976 = 16 \cdot 61 = 2^4 \cdot 61$$

61 is a prime number. It is easy to understand, that number of missing pages must be prime divisor of sum of missing pages. It easy to see that it is not 2, as we it is divided by 4, hence it is 61. Answer is: 61 pages are missing.

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