

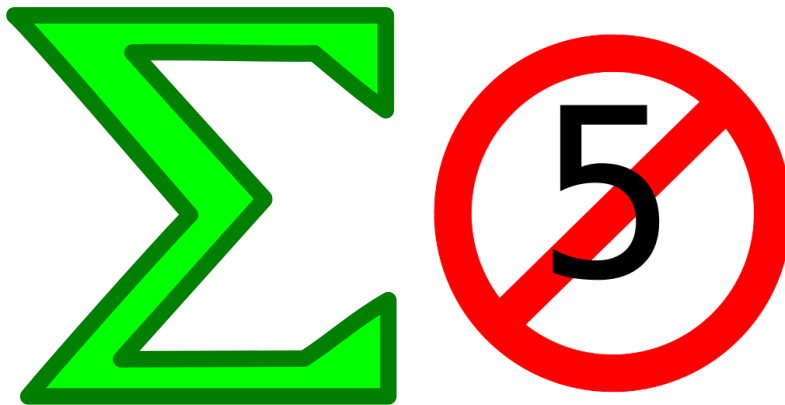


Problem of the Week
Problem E
Missing the Fives III

Bobbi lists the positive integers, in order, excluding all multiples of 5. Her resulting list is

1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, ...

Determine the sum of the first 2023 integers in Bobbi's list.



NOTE:

In solving this problem, it may be helpful to use the fact that the sum of the first n positive integers is equal to $\frac{n(n+1)}{2}$. That is,

$$1 + 2 + 3 + \cdots + n = \frac{n(n+1)}{2}$$

