

Pi Mu Epsilon

Problem of the Month November 2023

Let $N = \frac{1}{a} + \frac{1}{b} + \frac{1}{c}$, where a , b , and c are positive integers.

What is the largest value of N that is less than 1? The final answer should be in fraction form.

Problem of the Month Rules:

- ⌘ Submissions must include a complete mathematical justification along with the answer.
- ⌘ Submissions may only be made by individuals or groups of two and must be dated.
- ⌘ Due date: November 27, 2023 before 5 p.m. to one of Drs. Poplin, Shoenthal, Ledford, or Hoehner.

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