



MATH PROBLEM OF THE WEEK

Fall 2022

Problem 6

If M and N are **positive integers** such that $M + MN + N = 1146$ then what is the value of

one of the
the remain
is the aver

$$M + N?$$

HINT: $1147 = 31 \times 37$.

We welcome solutions from everyone. The undergraduate participant from the NMSU main campus with the most correct solutions at the end of the semester will receive an award of \$500.

Solutions must be mathematically rigorous and originally obtained by the participants. Participants will be notified if their solutions are correct within a week.

Deadline: Monday, November 7, 10 am

Next problem will be posted on November 7

Send solutions to: mathpotw@nmsu.edu

More information at: <https://math.nmsu.edu/activities/math-problem-of-the-week.html>