MATH PROBLEM OF THE WEEK

Fall 2021

Problem 2

A number is said to be "good" if it has seven digits, it is a multiple of 388, and it has 388 as the last three digits. How many good numbers are there?

Notes:

(1) The number 1164388 is good but 388388 is not good.

(2) Solutions must be mathematically rigorous. Correct answers without a proof are not considered correct solutions.

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.

Deadline: Monday, October 4, 10 am

Send solutions to: mathpotw@nmsu.edu
More information at: https://math.nmsu.edu/activities/math-problem-of-the-week.html