



MATH PROBLEM OF THE WEEK

Spring 2024

Problem 4

How many consecutive zeros does $2024!$ have at the right end of its decimal expansion? Here,

$$2024! = 2024 \times 2023 \times \cdots \times 2 \times 1.$$

Justify your answer.

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, March 18, 10 am

Next problem will be posted on March 18

Send solutions to: mathpotw@nmsu.edu

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