

The Holiday Puzzle

THIS YEAR: 2021

Find all ordered pairs of integers (m, n) such that

$$\frac{1}{m} + \frac{1}{n} = \frac{1}{2021}.$$

Note that we do not restrict ourselves to cases where m and n are both positive.

(The inspiration for this problem will be announced with the solutions.)

On GROUNDHOG DAY, 2022, solutions will be announced and will be posted on the Web at

<http://www.albany.edu/~martinhi/puzzle.html>

Send solutions to me via e-mail. While I may receive material at my physical mailbox on campus, the pandemic conceivably might still cause problems there.

M. Hildebrand

University at Albany

Department of Mathematics and Statistics

Albany, NY 12222

e-mail: mhildebrand@albany.edu