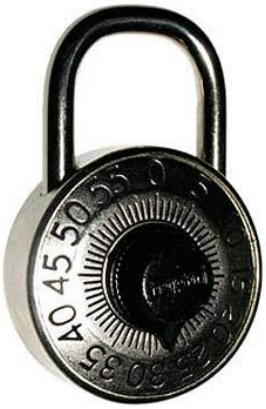
Week #8 Fall 2024

Problem of the Week



You have a combination lock, whose combination is fairly easy to remember. The lock allows values from 0 to 59. Your combination has the following features: let x be the first number, y be the second number and z be the third number, then

$$x^2y \div z = 53$$

How many different combinations are there to choose from, that have the property listed above?

Undergraduates may submit solutions to the Mathematics Department office, 1150 FAB or by email to mathpow@wayne.edu by noon 11/12/2024. Include your name, ID number, and whether you have completed Math 2030 (or higher). For more information go to https://clas.wayne.edu/math. Solutions will be posted online and throughout the math department after the deadline.