**MA 308 — Problem Solving for Middle School Teachers**          Spring 2020
**In-Class Exam 4**

No books or notes may be used on this exam. **Choose one of the two problems below to solve**. You will have 35 minutes to answer your chosen question. Please write legibly and keep your paper as organized as possible. I will collect both your scratch work and your final answer. **Your final answers should be nicely written to convey your ideas and convince the reader of the answer.**

Turn off your cell phone and do not wear headphones during the exam. You may use a calculator as long as it does not connect to the internet. Good Luck!

**Name:** ───────────────────────────────

> **Squares on a Chessboard:** How many squares are there in a standard 8x8 chessboard? (Hint: There are more than 64.)

> **Divisors and Reciprocals:** The divisors of 360 add up to 1170. What is the sum of the reciprocals of the divisors of 360? Remember to justify your answer.

**Solution:**                    **Problem Chosen:** _____