

Math 123
Spring 2023
Dr. Lily Yen

Assignment 1

Show all your work

Name: _____
Number: _____
Signature: _____
Score: ____/1

Problem 1: Katharina's parents love couples potluck gatherings. If her parents join 5 other couples in a potluck and they all shake hands with each other (including their own partners), how many handshakes are there? How many handshakes will there be if they don't shake hands with their own partners?

Clearly show your reasoning in a logical and organized fashion.

There are 6 couples, or 12 people, a total of $12 \times 11/2 = 66$ handshakes without restriction. Six couples not shaking hands with their partners mean 6 handshakes fewer, so 60 in total

Score: ____/1