

Math 123-02
Spring 2026
Dr. Lily Yen

Assignment 1

Show all your work

Name: _____
Number: _____
Signature: _____
Score: ____/10

Problem 1: Draw a tree diagram to help you count the number of different open sandwiches (made of one slice of bread, one patty, and one condiment), given that there are four kinds of bread, three kinds of patties, and five kinds of condiments.

Score: ____/3

Problem 2: Mei has a 3.6 m wire to cut into three pieces for a project. Suppose the longest piece is three times as long as the shortest piece, and the medium piece is the average of the longest and shortest pieces, find the length of each piece.

Score: ____/3

Problem 3: Below is a 3×3 magic square: using all whole numbers from 1 to 9 exactly once, fill the square such that the row sum, column sum, and diagonal sum are all equal.

Score: ____/4