Worksheet 10

Your job is to design a randomized comparative experiment to determine whether doing the homework assignments helps students learn the material in MAT 1000. The experiment will involve 50 students.

1. How will you recruit participants? Discuss whether or not this group of participants is representative of the overall student population.

2. You will need to divide the participants into two groups of 25 students. Label the fifty participants 01, 02, 03, ..., 50. Starting with row 105 of the Table of Random Digits, choose the first five participants for the first group.
3. Describe what “treatments” will be applied to the two groups. Describe not only how the treatments are different but also how they are the same.

4. Make a diagram that illustrates the design of the experiment.