MATH 1113 – Mathematics for General Education
Quiz 9

Instructions: Circle your final answers. Show all work. Answers with no work shown or illegible work will receive no credit.

1. Consider a multiple choice exam consisting of 6 questions in which each question can be answered either a, b, c, or d. Determine the number of elements in the sample space.

2. Consider the experiment in which three-digit numbers are formed from the digits 1 through 7.
 a.) How many three-digit numbers can be formed if this experiment is performed **with replacement**?

 b.) How many three-digit numbers can be formed if this experiment is performed **without replacement**?

3. Consider an experiment in which a fair coin is flipped once, a 6-sided die is rolled once, and a single card is drawn from a standard deck. How many elements are in the sample space associated with this experiment?