

Test 3 Study Guide

This list is a complete list of skills you should have going into the third test. Next to each item is a list of practice problems for that item from the textbook.

To be successful on the third test, you should be able to:

- List the elements in a given set or combination of sets (see 6.1 # 1-16, 21-37, 43-52, 61-66)
- Find the number of elements in a given set or combination of sets (see # 6.2 1-50)
- Find the total number of ways to make a decision or choice using the addition and multiplication principle (see 6.3 # 1-4, 15-32)
- Use permutations and combinations to find the number of ways to make arrangements, decisions, or choices (see 6.4 # 17-26, 29-40, 61-64)
- Given an experiment, list (or find the size of) the sample space and/or given event (see 7.1 # 1-20, 23-30, 39-40)
- Express a given event in symbols (see 7.1 # 23-33)
- Given information about outcomes of an experiment, find the relative frequency of an event (see 7.2 # 3-10, 25-34)
- Given an experiment, determine probabilities of an event (see 7.3 # 1-20)
- Given probabilities of events, determine probabilities of unions, intersections, and complements of the events (see 7.3 # 25-46, 63-64)