11.5 Probability with the Fundamental Counting Principle, Permutations, and Combinations

When computing theoretical probability, the fundamental counting principle, permutations, or combinations may be used to determine either the total number of possible outcomes or the number of outcomes of the specified event.

In these cases, it is usually easier to simplify the probability fraction if the numerator and denominator are left as products of numbers.

# Objective 1: Compute Probability with Permutations

# Objective 2: Compute Probability with Combinations