MM2 – Chapter 15 – Section 1

Pre-Class Question:

For a uniform sample space the Probability is 1/N. Show that is consistent with the following equation:

$$\sum_i P_i = 1$$

True or False, an arbitrary function $f(x)$ must be a non-uniform space because it depends on x? Explain your answer.

Class Worksheet

Imagine you flip three coins create a uniform and non-uniform sample space. Determine the probability for each.

Imagine you roll two dice create a uniform and non-uniform (via adding the faces) sample space. Determine the probability for each.

Design a Monte-Carlo programming script that flips a coin 1,000 times and gives you the probability of getting heads or tails.