Week 6 Assignment

Justin Hink

# Problem Set 1

1. The number of out comes from 3 consecutive die rolls can be expressed as:   
     
   { 3,6,1 } is one outcome while { 6, 3 ,1 } is another. If an outcome is defined as a sum of the rolls (which it doesn’t appear to be in the question), the answer changes.
2. A sum of 3 can be obtained in 2 ways: Die 1 =2 and Die 2 = 1 OR Die 1 = 1 and Die 2 = 2. This probability can be calculated as follows:
3. Let be the probability that all birthdays in the room are distinct.  
     
     
   The probability that there will be a pair of birthdays is the complement:  
   For 50 people: