Homework 1

Due: Friday, January 27, 2006

Questions:

1. Suppose you are tossing a cube (faces are numbered by 1, 2, 3, 4, 5, 6 respectively).
   
   • Find out all the possible outcomes in one-time tossing.

   • If you toss twice, find out all the possible combinations. How many do you get?

   • Find out all the combinations whose two tossing numbers’ summation is odd from your answer of the previous question. How many do you get?

   • If you repeat this twice tossing game 100 times, how many times do you expect to get an odd summation?

2. Find a brief business case in phrasing, presenting questions. (Exact examples from the textbook are NOT acceptable.)