Department of Computer Science and Engineering
University of California at San Diego

CSE 21
Spring 97

Sample Quiz 6

1. One fair die is tossed 1000 times.
   (a) Find the expected *sum* of all of the sixes that are thrown.
   (b) Find the standard deviation of the sum of the sixes that are thrown.

2. (a) A card is drawn and replaced from an ordinary deck of cards, 5 times in succession. What is the probability that at least 4 hearts will be drawn?
   (b) How many fair dice must be thrown so that there is a better than even chance of obtaining a one or a two?

3. Suppose 1 % of blood donors are infected with HIV. Find the probability that there are at most 2 HIV contaminated blood samples amongst 500 samples taken.