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

CSE 21
Spring 97

Actual Quiz 2

1. (a) A club has 23 members. How many ways can they pick 3 people to be on a committee to plan a party?
   (b) How many ways can they pick a president, a vice-president, and a secretary?
2. A *word* on a computer is a sequence of 32 binary digits (bits), i.e. the digits can only take on the values of zero and one.
   e.g. 0010 1011 0001 1000 0011 1100 0101 1000
   (a) How many distinct words are there?
   (b) If we require exactly 10 of the bits to be set (i.e. exactly 10 of the bits have the value one), then how many distinct words are there?
3. Four people play a game of cards in which each person gets 13 cards. How many possible 'deals' are there?