

## SOLUTIONS FOR PART II

### 5. COMBINATORIAL REASONING

**5.1.** When rolling  $n$  dice, the probability is  $1/2$  that the sum of the numbers obtained is even. There are  $6^n$  equally likely outcomes; we show that in half of them the sum is even. For each of the  $6^{n-1}$  ways to roll the first  $n - 1$  dice, there are six ways to roll the last die, and exactly three of them produce an even total. Thus there are  $6^n/2$  ways to roll an even sum.

**5.2.** Probabilities for the sum of two rolled dice.

$k$	2	3	4	5	6	7	8	9	10	11	12
probability	$\frac{1}{36}$	$\frac{2}{36}$	$\frac{3}{36}$	$\frac{4}{36}$	$\frac{5}{36}$	$\frac{6}{36}$	$\frac{5}{36}$	$\frac{4}{36}$	$\frac{3}{36}$	$\frac{2}{36}$	$\frac{1}{36}$

**5.3.** The numbers  $x$  and  $14 - x$  are equally likely to be the sum of the numbers facing up on two dice. Whenever  $i, j$  are two dice rolls that sum to  $x$ , the numbers  $7 - i$  and  $7 - j$  are two dice rolls that sum to  $14 - x$ , since  $1 \leq i \leq 6$  implies that  $1 \leq 7 - i \leq 6$ . Furthermore, the transformation is its own inverse. This establishes a bijection between the set of (ordered pair) dice rolls summing to  $x$  and the set of (ordered pair) dice rolls summing to  $14 - x$ , so the two sets are equally likely when the individual ordered pairs are equally likely rolls.

**5.4.** There are  $n^l$  words of length  $l$  from an alphabet of size  $n$ , and in  $\prod_{i=1}^l (l + 1 - i)$  of them each letter is used at most once. For each position in the word, a letter must be chosen. When repetitions are allowed, there are  $n$  choices at each of the  $l$  positions, regardless of earlier choices. When repetitions are forbidden, the number of ways to fill the  $i$ th position is  $l + 1 - i$ , regardless of how the earlier positions were filled. In each case, multiplying these factors counts the arrangements, by the product rule.

**5.5.** Given  $n$  married couples, there are  $n(n - 1)$  ways to form pairs consisting of one man and one woman who are not married to each other. We must choose one person of each type. Whichever type we choose first, we can choose such a person in  $n$  ways. Whichever person we choose, there are  $n - 1$  person of the opposite sex other than that person's spouse, and we choose one of those.

**5.6.** There are  $n!$  bijections from an  $n$ -element set  $A$  to an  $n$ -element set  $B$ . List the elements of  $A$  in some order, as  $\{a_1, \dots, a_n\}$ . The bijection assigns an element of  $B$  to each element of  $A$ . Furthermore, the assigned elements are distinct. The image of  $a_1$  can be chosen in  $n$  ways. For each way to

choose this, there are  $n - 1$  ways to choose the image of  $a_2$ . In general, for each way to choose the images of  $a_1, \dots, a_i$ , there are  $n - i$  ways to choose the image of  $a_{i+1}$ . By the product rule, the number of ways to form a bijection is  $\prod_{i=0}^{n-1} (n - i)$ .

**5.7.** There are  $12 \cdot 47 + 1 \cdot 48$  ways to pick two cards from a standard 52-card deck such that the first card is a spade and the second card is not an Ace. There are 13 ways to start with a spade. If the spade is not the Ace, then there are 47 ways to pick the second card, since one non-Ace has been used. If the spade is the Ace, then there are 48 ways to pick the second card. Combining the two cases yields the answer  $12 \cdot 47 + 48$ .

Alternatively, one can name a spade for the first card and a non-Ace for the second card, eliminating the cases where the same card is named twice. This yields  $13 \cdot 48 - 12$ , which equals the value above.

**5.8.** The coefficient of  $x^4y^5$  in the expansion of  $(x + y)^9$  is  $\binom{9}{4}$ , by the Binomial Theorem. The value is  $\frac{9 \cdot 8 \cdot 7 \cdot 6}{4!3!}$ , which equals 126.

**5.9.** Probabilities in a 5-card hand. We divide the number of hands with the desired property by  $\binom{52}{5}$ , the total number of possible hands.

a) Hands having at least three cards with the same rank. If we simply pick three cards of the same rank and then pick two other cards, we might get four of the same rank; such hands would be counted four times. Thus we count the two cases separately. By picking a rank and an extra card, there are  $13 \cdot 48$  hands with four of a single rank. For the other case, we pick a rank, leave out one of that rank, and pick two cards of other ranks, in  $13 \cdot 4 \cdot \binom{48}{2}$  ways. Thus the answer is  $13 \cdot 48(1 + 2 \cdot 47)/\binom{52}{5}$ .

b) Hands having at least two cards with the same rank. To the numerator in part (a), we could add on the hands having two but not three from a single rank. Note that we must avoid double-counting the hands having a pair from each of two ranks.

Alternatively, we can subtract from the total the hands having no pair of cards with the same rank. Since we pick five different ranks and one card from each, there are  $\binom{52}{5}4^5$  of these, and the answer is  $1 - \binom{52}{5}4^5/\binom{52}{5}$ . Note that about half of the hands have no repeated ranks, since  $\binom{52}{5}4^5/\binom{52}{5} = \frac{32 \cdot 48 \cdot 44 \cdot 40 \cdot 36}{52 \cdot 48 \cdot 44 \cdot 40 \cdot 36} = .50708$ .

**5.10.** In  $2n$  coin flips, the probability of obtaining exactly  $n$  heads is  $\binom{2n}{n}/2^{2n}$ . There are  $2^{2n}$  lists of heads and tails, all equally likely. A list with  $n$  heads is determined by choosing locations for the  $n$  heads in the list. Thus  $\binom{2n}{n}$  outcomes have  $n$  heads.

When  $n = 10$ , the value is  $(19 \cdot 17 \cdot 13 \cdot 11)/2^{20}$  after cancellation. This equals approximately .176197.

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