

# Solution Manual for A First Course in Probability, 9th Edition Sheldon Ross

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## Chapter 1

### Problems

- (a) By the generalized basic principle of counting there are

$$26 \cdot 26 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 = 67,600,000$$

(b)  $26 \cdot 25 \cdot 10 \cdot 9 \cdot 8 \cdot 7 \cdot 6 = 19,656,000$
- $6^4 = 1296$
- An assignment is a sequence  $i_1, \dots, i_{20}$  where  $i_j$  is the job to which person  $j$  is assigned. Since only one person can be assigned to a job, it follows that the sequence is a permutation of the numbers  $1, \dots, 20$  and so there are  $20!$  different possible assignments.
- There are  $4!$  possible arrangements. By assigning instruments to Jay, Jack, John and Jim, in that order, we see by the generalized basic principle that there are  $2 \cdot 1 \cdot 2 \cdot 1 = 4$  possibilities.
- There were  $8 \cdot 2 \cdot 9 = 144$  possible codes. There were  $1 \cdot 2 \cdot 9 = 18$  that started with a 4.
- Each kitten can be identified by a code number  $i, j, k, l$  where each of  $i, j, k, l$  is any of the numbers from 1 to 7. The number  $i$  represents which wife is carrying the kitten,  $j$  then represents which of that wife's 7 sacks contain the kitten;  $k$  represents which of the 7 cats in sack  $j$  of wife  $i$  is the mother of the kitten; and  $l$  represents the number of the kitten of cat  $k$  in sack  $j$  of wife  $i$ . By the generalized principle there are thus  $7 \cdot 7 \cdot 7 \cdot 7 = 2401$  kittens
- (a)  $6! = 720$   
(b)  $2 \cdot 3! \cdot 3! = 72$   
(c)  $4!3! = 144$   
(d)  $6 \cdot 3 \cdot 2 \cdot 2 \cdot 1 \cdot 1 = 72$
- (a)  $5! = 120$   
(b)  $\frac{7!}{2!2!} = 1260$   
(c)  $\frac{11!}{4!4!2!} = 34,650$   
(d)  $\frac{7!}{2!2!} = 1260$
- $(12)!$

# First Course In Probability 9th Solution Manual

**Zhe Xu**



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