

A First Course in Probability

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Chapter 1

Problems

1. (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) $26 \cdot 25 \cdot 10 \cdot 9 \cdot 8 \cdot 7 \cdot 6 = 19,656,000$

2. $6^5 = 1296$

3. 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.

4. 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.

5. There were $8 \cdot 2 \cdot 9 = 144$ possible codes. There were $1 \cdot 2 \cdot 9 = 18$ that started with a 4.

6. 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.

7. (a) $6! = 720$
(b) $2 \cdot 3! \cdot 3! = 72$
(c) $4!3! = 144$
(d) $6 \cdot 3 \cdot 2 \cdot 2 \cdot 1 \cdot 1 = 72$

8. (a) $\frac{5!}{7!} = 120$
(b) $\frac{2!2!}{2!2!} = 1260$
(c) $\frac{11!}{4!4!2!} = 34,650$
(d) $\frac{7!}{2!2!} = 1260$

9. $\frac{(12)!}{6!4!} = 27,720$

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Lingjun Ying



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