Chapter 1: Probability Theory (Cont'd)

Section 1.7: Counting Techniques

Problem (01):

A menu has five appetizers, three soups, seven main courses, six salad dressings, and eight desserts.

(a) In how many ways can a full meal be chosen?
(b) In how many ways can a meal be chosen if either an appetizer or a soup is ordered, but not both?

(Problem 1.7.4 in textbook)

Solution:

(a) The number of full meals

$$= 5 \times 3 \times 7 \times 6 \times 8 = 5{,}040$$

(b) The number of meals with either soup or appetizer

$$= (5 + 3) \times 7 \times 6 \times 8 = 2{,}688$$

Problem (02):

In an experiment to test iron strengths, three different ores, four different furnace temperatures and two different cooling methods are to be considered. Altogether, how many experimental configurations are possible?

(Problem 1.7.5 in textbook)

Solution:

The number of experimental configurations $= 3 \times 4 \times 2 = 24$

Problem (03):

Four players compete in a tournament and are ranked from 1 to 4. They then compete in another tournament and are again ranked from 1 to 4. Suppose that their performances in the second tournament are unrelated to

Chapter 7 Section 7 1 Probability Theory And Counting

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