35 Permutations, Combinations and Probability

Thus far we have been able to list the elements of a sample space by drawing a tree diagram. For large sample spaces tree diagrams become very complex to construct. In this section we discuss counting techniques for finding the number of elements of a sample space or an event without having to list them.

Permutations
Consider the following problem: In how many ways can 8 horses finish in a race (assuming there are no ties)? We can look at this problem as a decision consisting of 8 steps. The first step is the possibility of a horse to finish first in the race, the second step the horse finishes second, ... , the 8th step the horse finishes 8th in the race. Thus, by the Fundamental Principle of counting there are

$$8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 40,320 \text{ ways}$$

This problem exhibits an example of an ordered arrangement, that is, the order the objects are arranged is important. Such ordered arrangement is called a **permutation**. Products such as $8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$ can be written in a shorthand notation called factoriel. That is, $8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 8!$ (read "8 factoriel"). In general, we define **n factoriel** by

$$n! = \begin{cases} n(n-1)(n-2)\cdots 3 \cdot 2 \cdot 1, & \text{if } n \geq 1 \\ 1, & \text{if } n = 0. \end{cases}$$

where n is a whole number n.

Example 35.1
Evaluate the following expressions:

(a) $6!$ (b) $\frac{10!}{7!}$.

Solution.
(a) $6! = 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 720$
(b) $\frac{10!}{7!} = \frac{10 \cdot 9 \cdot 8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1} = 10 \cdot 9 \cdot 8 = 720$■

Using factoriels we see that the number of permutations of n objects is $n!$.

Answers 35 Permutations Coblinations Nad Probability

D Keegan

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1. Understanding the eBook Answers 35 Permutations Coblinations Nad Probability
    - The Rise of Digital Reading Answers 35 Permutations Coblinations Nad Probability
    - Advantages of eBooks Over Traditional Books
2. Identifying Answers 35 Permutations Coblinations Nad Probability
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Answers 35 Permutations Coblinations Nad Probability
    - User-Friendly Interface
4. Exploring eBook Recommendations from Answers 35 Permutations Coblinations Nad Probability
    - Personalized Recommendations
    - Answers 35 Permutations Coblinations Nad Probability User Reviews and Ratings
    - Answers 35 Permutations Coblinations Nad Probability and Bestseller Lists
5. Accessing Answers 35 Permutations Coblinations Nad Probability Free and Paid eBooks
    - Answers 35 Permutations Coblinations Nad Probability Public Domain eBooks
    - Answers 35 Permutations Coblinations Nad Probability eBook Subscription Services
    - Answers 35 Permutations Coblinations Nad Probability Budget-Friendly Options

6. Navigating Answers 35 Permutations Coblinations Nad Probability eBook Formats
    - ePub, PDF, MOBI, and More
    - Answers 35 Permutations Coblinations Nad Probability Compatibility with Devices
    - Answers 35 Permutations Coblinations Nad Probability Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Answers 35 Permutations Coblinations Nad Probability
    - Highlighting and Note-Taking Answers 35 Permutations Coblinations Nad Probability
    - Interactive Elements Answers 35 Permutations Coblinations Nad Probability
8. Staying Engaged with Answers 35 Permutations Coblinations Nad Probability
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Answers 35 Permutations Coblinations Nad Probability
9. Balancing eBooks and Physical Books Answers 35 Permutations Coblinations Nad Probability
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Answers 35 Permutations Coblinations Nad Probability
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Answers 35 Permutations Coblinations Nad Probability
    - Setting Reading Goals Answers 35 Permutations Coblinations Nad Probability
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers 35 Permutations Coblinations Nad Probability
    - Fact-Checking eBook Content of Answers 35 Permutations Coblinations Nad Probability
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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