

Chapter 7

PERMUTATION, COMBINATION AND PROBABILITY

FACTORIAL NOTATION

Let n be a positive integer. Then the product $n (n - 1) (n - 2) \dots \dots \dots 3 \cdot 2 \cdot 1$ is denoted by $n!$ or n and read as n factorial.

i.e. $n! = n (n - 1) (n - 2) \dots \dots \dots 3 \cdot 2 \cdot 1$

and $n! = n (n - 1)!$ where $0! = 1$

EXERCISE 7.1

Q.1 Evaluate each of the following:

$$(i) 4! \quad (ii) 6! \quad (iii) \frac{8!}{7!} \quad (iv) \frac{10!}{7!} \quad (v) \frac{11!}{4! 7!} \quad (vi) \frac{6!}{3! 3!} \quad (vii) \frac{8!}{4! 2!}$$

$$(viii) \frac{11!}{2! 4! 5!} \quad (ix) \frac{9!}{2! (9 - 2)!} \quad (x) \frac{15!}{15! (15 - 15)!} \quad (xi) \frac{3!}{0!} \quad (xii) 4! 0! 1!$$

Solution:

$$(i) 4! = 4 \cdot 3 \cdot 2 \cdot 1 = 24$$

$$(ii) 6! = 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 720$$

$$(iii) \frac{8!}{7!} = \frac{8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1} = 8$$

$$(iv) \frac{10!}{7!} = \frac{10 \cdot 9 \cdot 8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1} = 720$$

$$(v) \frac{11!}{4! 7!} = \frac{11 \cdot 10 \cdot 9 \cdot 8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{4 \cdot 3 \cdot 2 \cdot 1 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1} = 330$$

$$(vi) \frac{6!}{3! 3!} = \frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{3 \cdot 2 \cdot 1 \cdot 3 \cdot 2 \cdot 1} = 20$$

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Table of Contents Answers 35 Permutations Coblinations Nad Probability

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

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 - 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

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