

# Permutations and Combinations Worksheet

## Answer Key

### *As a Matter of Factorial...*

1. How many ways are there to order 5 books on a shelf?  
 $5! = 120$
2. Simplify  ${}_{10}P_6$ .  
 $\frac{10!}{4!} = 5040$
3. How many ways can we order 6 computers if we have only space for 3?  
 $\frac{6!}{3!} = 120$
4. How many ways can we order 8 swimsuits in 4 lockers?  
 $\frac{8!}{4!} = 1680$
5. How many ways can we choose 4 t-shirts from 6 t-shirts with repetitions allowed?  
 $6^4 = 1296$
6. How many 10-digit phone numbers are there?  
 $10^{10}$
7. How many playlists can we make with 38 songs if we can repeat 5 songs in each playlist?  
 ${}_{38}P_{33} = 38 \times 37 \times 36 \times 35 \times 34$
8. How many combinations of playlists can we make with 10 songs when there are 5 songs in each and order does not matter?  
 ${}_{10}C_5 = \frac{10!}{5!5!}$
9. A drawer contains 6 white t-shirts and 2 red ones. If 2 shirts are drawn at random, what is the probability of getting 2 white shirts?  
 $\frac{{}_6C_2}{{}_8C_2} = \frac{15}{28}$
10. There are 10 pink, 15 purple, and 5 green jelly beans in a jar. If two jelly beans are drawn at random (without replacement) what is the probability that both are green?  
 $\frac{{}_5C_2}{{}_{30}C_2} = \frac{2}{87}$

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# Lesson 1 permutations And Combinations Answers

**Jicheng Xie**



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## **Table of Contents Lesson 1permutations And Combinations Answers**

1. Understanding the eBook Lesson 1permutations And Combinations Answers
  - The Rise of Digital Reading Lesson 1permutations And Combinations Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Lesson 1permutations And Combinations Answers
  - 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 Lesson 1permutations And Combinations Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lesson 1permutations And Combinations Answers
  - Personalized Recommendations
  - Lesson 1permutations And Combinations Answers User Reviews and Ratings
  - Lesson 1permutations And Combinations Answers and Bestseller Lists
5. Accessing Lesson 1permutations And Combinations Answers Free and Paid eBooks
  - Lesson 1permutations And Combinations Answers Public Domain eBooks
  - Lesson 1permutations And Combinations Answers eBook Subscription Services
  - Lesson 1permutations And Combinations Answers Budget-Friendly Options

6. Navigating Lesson 1permutations And Combinations Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Lesson 1permutations And Combinations Answers Compatibility with Devices
  - Lesson 1permutations And Combinations Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lesson 1permutations And Combinations Answers
  - Highlighting and Note-Taking Lesson 1permutations And Combinations Answers
  - Interactive Elements Lesson 1permutations And Combinations Answers
8. Staying Engaged with Lesson 1permutations And Combinations Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lesson 1permutations And Combinations Answers
9. Balancing eBooks and Physical Books Lesson 1permutations And Combinations Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lesson 1permutations And Combinations Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Lesson 1permutations And Combinations Answers
  - Setting Reading Goals Lesson 1permutations And Combinations Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lesson 1permutations And Combinations Answers
  - Fact-Checking eBook Content of Lesson 1permutations And Combinations Answers
  - 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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