

Probability Theory- Exercises and Solutions

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**Exercise1 :**

The following figure represents a Venn diagram that includes the sample space and two events A and B:



Where,  $P(a) = 0.32$  ,  $P(b) = 0.1$  ,  $P(c) = 0.28$  ,  $(d) = 0.2$  .

1. Check out DeMorgane's Laws.
2. Calculate the probabilities :  $P(A)$  ,  $P(B)$  .
3. Calculate  $P(A \cap B)$ .
4. Calculate  $P(A \cup B)$  in two different ways.

**Solution :**

- 1.** DeMorgane's Laws state that:  $(\overline{A \cap B}) = \overline{A} \cup \overline{B}$  ,  $(\overline{A \cup B}) = \overline{A} \cap \overline{B}$

Check the *first law*:

$$\begin{aligned} \overline{(A \cap B)} &= \Omega - (A \cap B) = \Omega - \{c\} = \{a, b, d, e\} \\ \overline{A} \cup \overline{B} &= \{a, d, e\} \cup \{a, b\} = \{a, b, d, e\} \quad \Rightarrow \quad \overline{(A \cap B)} = \overline{A} \cup \overline{B} \end{aligned}$$

Check the *second law*:

$$\begin{aligned} \overline{(A \cup B)} &= \Omega - (A \cup B) = \Omega - \{b, c, d, e\} = \{a\} \\ \overline{A} \cap \overline{B} &= \{a, d, e\} \cap \{a, b\} = \{a\} \quad \Rightarrow \quad \overline{(A \cup B)} = \overline{A} \cap \overline{B} \end{aligned}$$

- 2.** Calculating the probabilities :  $P(A)$  ,  $P(B)$

$$P(A) = P\{b, c\} = P(b) + P(c) = 0.1 + 0.28 = \mathbf{0.38}$$

# Probability Exercises And Solutions

**Tobias Bleicker**



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### **Table of Contents Probability Exercises And Solutions**

1. Understanding the eBook Probability Exercises And Solutions
  - The Rise of Digital Reading Probability Exercises And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Probability Exercises And Solutions
  - 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 Probability Exercises And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Probability Exercises And Solutions

- Personalized Recommendations
  - Probability Exercises And Solutions User Reviews and Ratings
  - Probability Exercises And Solutions and Bestseller Lists
5. Accessing Probability Exercises And Solutions Free and Paid eBooks
    - Probability Exercises And Solutions Public Domain eBooks
    - Probability Exercises And Solutions eBook Subscription Services
    - Probability Exercises And Solutions Budget-Friendly Options
  6. Navigating Probability Exercises And Solutions eBook Formats
    - ePub, PDF, MOBI, and More
    - Probability Exercises And Solutions Compatibility with Devices
    - Probability Exercises And Solutions Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Probability Exercises And Solutions
    - Highlighting and Note-Taking Probability Exercises And Solutions
    - Interactive Elements Probability Exercises And Solutions
  8. Staying Engaged with Probability Exercises And Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Probability Exercises And Solutions
  9. Balancing eBooks and Physical Books Probability Exercises And Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Probability Exercises And Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Probability Exercises And Solutions
    - Setting Reading Goals Probability Exercises And Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Probability Exercises And Solutions

- Fact-Checking eBook Content of Probability Exercises And Solutions
  - 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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