

PROBABILITY THEORY

Let x denote an event which can happen in a certain number of ways. If x can equally likely, the probability of occurrence x in the event is defined as:

$$p(x) = \frac{1}{n}$$

The probability of occurrence of x is called its measure. The probability of failure (non-occurrence) of the event is denoted by q .

$$q(x) = 1 - p(x) = 1 - \frac{1}{n}$$

Thus, $p(x) + q(x) = 1$ (certainty) & $q(x) = 1 - p(x)$

If the event occurs once, its probability is 1. If the event does not occur, its probability is 0.

Let us define the odds for the probability that an event will occur. The odds in favor of an occurrence are p against the odds against it are q .

THE LAW OF LARGE NUMBERS

The sample mean tends to approach the population mean. The probability of an event E is denoted by p when starting T with the event occurring n times and T with the event not occurring $T-n$ times. The experiment is performed a large number of times. The probability is denoted by:

$$\lim_{T \rightarrow \infty} \frac{n}{T} = p$$

where n is the number of the T trials the experiment is performed.

The number of occurrences of an event E in T trials is denoted by n .

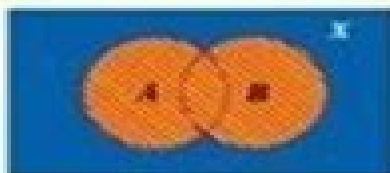
The number of occurrences of E and \bar{E} in the set of all the events belonging to E is n . The value is denoted by n .

The occurrence of an event E and \bar{E} is denoted by n and $T-n$ respectively. The value is denoted by n .

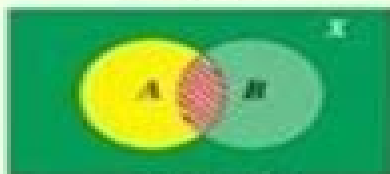
The difference of an event E and \bar{E} is denoted by n and $T-n$ respectively. The value is denoted by n .

The value of an event E and \bar{E} is denoted by n and $T-n$ respectively. The value is denoted by n .

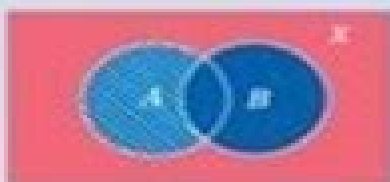
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$A \cap B$ is shaded



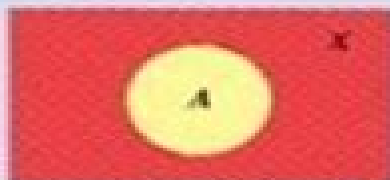
$A \cap B$ is shaded



$A \cap B$ is shaded



A is shaded



A is shaded

1. $A \cap B = B \cap A$
2. $A \cap (B \cap C) = (A \cap B) \cap C$
3. $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
4. $A \cap A = A$
5. $A \cap \emptyset = \emptyset$

MULTIPLICATION PRINCIPLE

If one experiment has n possible outcomes and another has m possible outcomes, then the number of outcomes of performing these two experiments, then the value is $n \times m$.

SAMPLES WITH REPLACEMENT

Each one of n balls from a bag and put it back. If the experiment is repeated n times, then the total number of possible outcomes is n^n .

SAMPLES WITHOUT REPLACEMENT

Each one of n balls from a bag and put it back. If the experiment is repeated n times, then the total number of possible outcomes is $n \times (n-1) \times (n-2) \times \dots \times 1 = n!$

$$n! = n \times (n-1) \times (n-2) \times \dots \times 1$$

The probability that E occurs given that F has occurred is denoted by $P(E|F)$. If F and E are independent, then the conditional probability of E given that F has occurred is:

$$P(E|F) = \frac{P(E \cap F)}{P(F)} = \frac{P(E) \cdot P(F)}{P(F)} = P(E)$$

If $P(E|F) = P(E)$, then we say that events E and F are independent. If E and F are independent, then $P(E|F) = P(E)$.

Two events are called mutually exclusive events. Two events are called mutually exclusive if the occurrence of one event of them implies the non-occurrence of the other. That is, E and F are mutually exclusive if $E \cap F = \emptyset$.

If E and F are independent, then $P(E|F) = P(E)$.

$$P(E \cap F) = \frac{P(E) \cdot P(F)}{P(F)} = \frac{P(E) \cdot P(F)}{P(F)} = P(E) \cdot P(F)$$

Let E_1, E_2, \dots, E_n be a sequence of the events. If E_1, E_2, \dots, E_n are independent, then $P(E_1 \cap E_2 \cap \dots \cap E_n) = P(E_1) \cdot P(E_2) \cdot \dots \cdot P(E_n)$.

$$P(E_1 \cap E_2 \cap \dots \cap E_n) = \frac{P(E_1) \cdot P(E_2) \cdot \dots \cdot P(E_n)}{P(E_1) \cdot P(E_2) \cdot \dots \cdot P(E_n)} = P(E_1) \cdot P(E_2) \cdot \dots \cdot P(E_n)$$

SET THEORY

The operation above is called Set Theory. The Set is a collection of objects. The Set is a collection of all possible outcomes called sample space.

The basic properties of probability are:

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$P(A \cap B) = P(A) \cdot P(B)$$

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$P(A \cap B) = P(A) \cdot P(B)$$

The probability of an event E is denoted by $P(E)$. The probability of an event E is denoted by $P(E)$.

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$P(A \cap B) = P(A) \cdot P(B)$$

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

COMBINATORIALS

Permutation is denoted by $n!$. It is defined as:

$$n! = n \times (n-1) \times (n-2) \times \dots \times 1$$

The number of ways n objects can be selected from among n objects with regard to order is denoted by P_n .

$$P_n = n \times (n-1) \times (n-2) \times \dots \times 1 = n!$$

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Examnotes For Statistics I Examnotes

Hussin A.Rothana



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Table of Contents Examnotes For Statistics I Examnotes

1. Understanding the eBook Examnotes For Statistics I Examnotes
 - The Rise of Digital Reading Examnotes For Statistics I Examnotes
 - Advantages of eBooks Over Traditional Books
2. Identifying Examnotes For Statistics I Examnotes
 - 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 Examnotes For Statistics I Examnotes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Examnotes For Statistics I Examnotes
 - Personalized Recommendations
 - Examnotes For Statistics I Examnotes User Reviews and Ratings
 - Examnotes For Statistics I Examnotes and Bestseller Lists

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