

Probability (Prepared by Jincy A.J)

Questions and Answers

1. Given that E and F are events, such that $P(E) = 0.6$, $P(F) = 0.3$ and $P(E \cap F) = 0.2$, find $P(E|F)$ and $P(F|E)$.

Solution:

Given $P(E) = 0.6$, $P(F) = 0.3$ and $P(E \cap F) = 0.2$

We know that by the definition of conditional probability,

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

By substituting the values we get

$$\Rightarrow P(E|F) = \frac{P(E \cap F)}{P(F)} = \frac{0.2}{0.3} = \frac{2}{3}$$

$$\text{And } \Rightarrow P(F|E) = \frac{P(E \cap F)}{P(E)} = \frac{0.2}{0.6} = \frac{2}{6} = \frac{1}{3}$$

2. Compute $P(A|B)$, if $P(B) = 0.5$ and $P(A \cap B) = 0.32$

Solution:

Given: $P(B) = 0.5$ and $P(A \cap B) = 0.32$

We know that by definition of conditional probability,

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

Now by substituting the values we get

$$\Rightarrow P(A|B) = \frac{0.32}{0.5} = \frac{32}{50} = \frac{16}{25}$$

3. If $P(A) = 0.8$, $P(B) = 0.5$ and $P(B|A) = 0.4$, find
(i) $P(A \cap B)$

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Martin Sternstein



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Table of Contents Statistics Questions Probability Question Answers

1. Understanding the eBook Statistics Questions Probability Question Answers
 - The Rise of Digital Reading Statistics Questions Probability Question Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Statistics Questions Probability Question 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 Statistics Questions Probability Question Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Statistics Questions Probability Question Answers

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

- Fact-Checking eBook Content of Statistics Questions Probability Question 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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