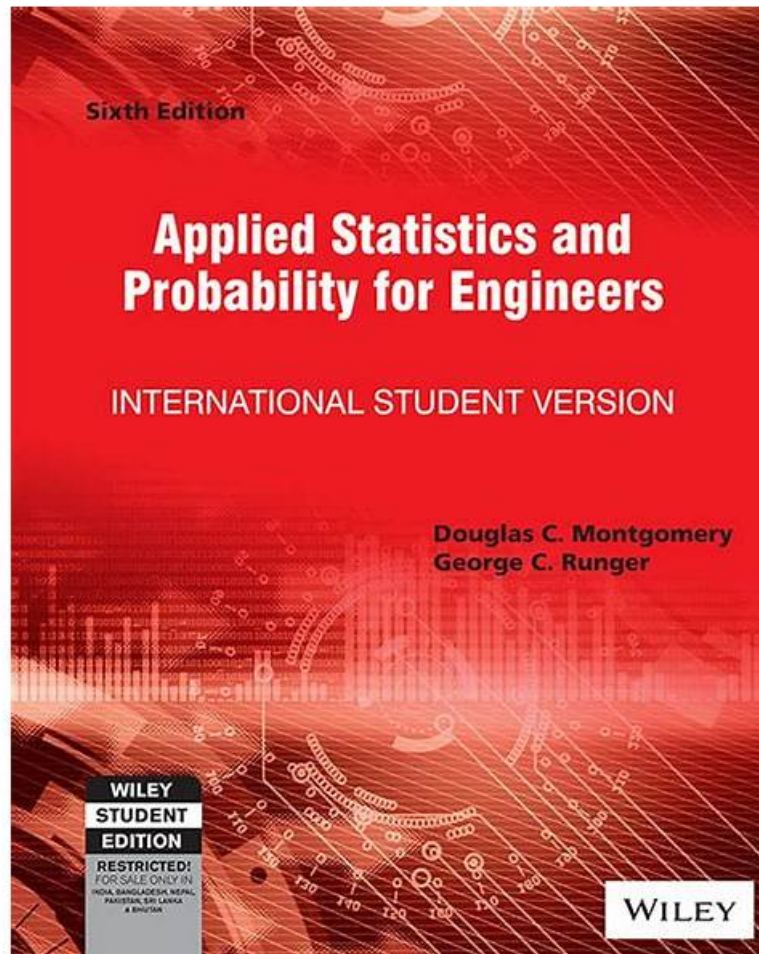


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WGU Applied-Probability-and-Statistics Exam Syllabus Topics:

Section	Objectives
Statistical Inference	- Estimation and Confidence Intervals 1. Confidence interval interpretation 2. Point estimates
	- Hypothesis Testing (Introductory Level) 1. p-values interpretation 2. Null vs alternative hypothesis

	- Probability Distributions
	• 1. Normal distribution • 2. Binomial distribution basics
Probability Theory	- Fundamental Probability Concepts
	• 1. Basic probability rules • 2. Independent vs dependent events • 3. Conditional probability
	- Two Variable Data Analysis
	• 1. Outliers and relationships • 2. Scatter plots interpretation • 3. Correlation
Descriptive Statistics	- Single Variable Data Analysis
	• 1. Data visualization (histograms, box plots) • 2. Measures of dispersion (variance, standard deviation, range) • 3. Measures of central tendency (mean, median, mode)
	- Linear Relationships
Regression and Modeling	• 1. Slope and intercept interpretation • 2. Simple linear regression

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WGU Applied Probability and Statistics (FZO1 C955) Sample Questions (Q109-Q114):

NEW QUESTION # 109

Two dice rolled, probability of both even = ?

- A. 1/2
- B. 1/3
- C. 1/4
- D. 1/6

Answer: C

Explanation:

A standard six-sided die has three even outcomes: 2, 4, and 6. Thus, the probability that one die lands on an even number is $3/6 = 1/2$. When two dice are rolled, the outcomes are independent because the result of one die does not affect the other. Therefore, the probability that both dice are even is $1/2 \times 1/2 = 1/4$.

Equivalently, there are 36 ordered outcomes for two dice. The even-even outcomes are formed from 3 even choices on the first die and 3 even choices on the second die, giving $3 \times 3 = 9$ favorable outcomes. Then $9/36$ simplifies to $1/4$. Option B gives the

probability of one die being even, not both. Options C and D do not match the count or multiplication rule. Study Guide references/topics: independent events, dice probability, multiplication rule, sample space.

NEW QUESTION # 110

Type II error = ?

- A. None
- B. Correct decision
- C. Reject H_0 when true
- D. Accept H_0 when false

Answer: D

Explanation:

A Type II error occurs when the null hypothesis is false, but the test fails to reject it. Many introductory materials describe this as "accepting H_0 when false," although the more precise statistical wording is "failing to reject H_0 ." This is a false negative: a real effect, difference, or relationship exists, but the test does not detect enough evidence to conclude it. For example, if a new teaching method truly improves scores but the test fails to find significance, the result is a Type II error. Option B describes a Type I error, which is rejecting a true null hypothesis. Option C is a correct test decision, not an error. Option D is invalid because Type II error is a defined concept. The probability of Type II error is β , and statistical power is $1 - \beta$. Study Guide references/topics: hypothesis testing, Type II error, null hypothesis, statistical power.

NEW QUESTION # 111

A single ball is drawn from an opaque bag that contains red, blue, and green balls. The probability of drawing a red ball is .3, and the probability of drawing a blue ball is .6.

What is the probability of drawing a green ball?

- A. .9
- B. .5
- C. .3
- D. .1

Answer: D

Explanation:

The probabilities of all possible outcomes in a sample space must sum to 1. In this experiment, the bag contains only red, blue, and green balls, so these three outcomes exhaust the sample space. The probability of drawing a red ball is 0.3, and the probability of drawing a blue ball is 0.6. Their combined probability is $0.3 + 0.6 = 0.9$. The remaining probability must belong to drawing a green ball. Therefore, $P(\text{green}) = 1 - 0.9 = 0.1$.

This can also be viewed as a complement problem: green is the complement of drawing either red or blue when those are the only other colors available. Option B repeats the red probability, option C would make the total probability exceed 1, and option D is the combined probability of red or blue rather than green.

References/topics from the Study Guide: probability sum rule, complements, sample space, mutually exclusive outcomes.

NEW QUESTION # 112

Sum of probabilities in sample space = ?

- A. > 1
- B. Cannot exceed 2
- C. 0
- D. 1

Answer: D

Explanation:

The probabilities of all outcomes in a complete sample space must sum to 1. A sample space contains every possible outcome of a probability experiment, and one of those outcomes must occur. For example, when rolling a fair six-sided die, the outcomes are 1, 2, 3, 4, 5, and 6. Each has probability $1/6$, and the sum is $1/6 + 1/6 + 1/6 + 1/6 + 1/6 + 1/6 = 1$.

$1/6 + 1/6 + 1/6 + 1/6 + 1/6 = 1$. A total probability of 0 would mean no outcome can occur, which is impossible for a valid experiment. A total greater than 1 violates probability rules because probabilities cannot exceed certainty. "Cannot exceed 2" is too broad and mathematically invalid, since the exact total must equal

1. This principle is foundational for checking probability distributions and validating whether assigned probabilities are coherent. Study Guide references/topics: sample space, probability axioms, total probability, theoretical probability.

NEW QUESTION # 113

A tech company surveys its employees to assess remote work preferences. The survey reveals that 55% of employees prefer working remotely, while the remaining employees prefer working in the office. Of the employees who prefer remote work, 75% report high productivity. Among those who prefer working in the office, only 50% report high productivity. Which percentage of employees prefer working in the office and report high productivity?

- A. 27.5%
- B. 22.5%
- C. 50%
- D. 45%

Answer: B

Explanation:

The question asks for a joint percentage: employees who both prefer working in the office and report high productivity. First identify the percentage who prefer office work. Since 55% prefer remote work, the remaining 45% prefer working in the office. The problem then states that among office-preferring employees,

50% report high productivity. This is a conditional percentage: $P(\text{high productivity} | \text{office preference}) = 50\%$.

To find the overall percentage of all employees who satisfy both conditions, multiply the base percentage by the conditional percentage: $45\% \times 50\% = 0.45 \times 0.50 = 0.225 = 22.5\%$. Option D gives only the conditional rate within the office group, not the percentage of all employees. Option C gives only the office-preference percentage, not productivity within that group. Option B does not match the correct joint probability calculation. The correct selection is therefore 22.5%. References/topics from the Study Guide: probability, conditional percentages, joint probability, two-way categorical reasoning.

NEW QUESTION # 114

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