

WGU Applied-Probability-and-Statistics Questions: Fosters Your Exam Passing Skills [2026]

WGU C955 APPLIED PROBABILITY AND STATISTICS PRE ASSESSMENT EXAM SCRIPT 2026 COMPLETE QUESTIONS AND CORRECT ANSWERS

➤ A team of educational researchers plan to conduct a local study in the community in order to resolve a critical problem at hand.

What variety of research does this represent? Answer: Action

➤ *What is the name of the process where one determines the truth of a conclusion by determining the truth of the underlying premises?
Answer: Deductive reasoning

➤ Which arrow represents the inductive method? Answer: The Exploratory arrow

➤ Theories A and B provide explanations for variance in students' academic performance. Both theories explain performance well; however, Theory A is more concise and succinct.

Which approach for evaluating quality is applied to determine that Theory A is preferred for explaining the phenomenon? Answer: The rule of parsimony

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

Section	Objectives
Topic 1: Regression and Modeling	- Linear Relationships 1. Simple linear regression 2. Slope and intercept interpretation

Topic 2: Statistical Inference	- Hypothesis Testing (Introductory Level) • 1. p-values interpretation • 2. Null vs alternative hypothesis - Estimation and Confidence Intervals • 1. Confidence interval interpretation • 2. Point estimates
Topic 3: Descriptive Statistics	- Two Variable Data Analysis • 1. Outliers and relationships • 2. Correlation • 3. Scatter plots interpretation - Single Variable Data Analysis • 1. Measures of central tendency (mean, median, mode) • 2. Measures of dispersion (variance, standard deviation, range) • 3. Data visualization (histograms, box plots)
Topic 4: Probability Theory	- Fundamental Probability Concepts • 1. Independent vs dependent events • 2. Basic probability rules • 3. Conditional probability - Probability Distributions • 1. Normal distribution • 2. Binomial distribution basics

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WGU Applied Probability and Statistics (FZO1 C955) Sample Questions (Q122-Q127):

NEW QUESTION # 122

A commuter has a .4 probability of taking the bus to work, a .4 probability of driving a car, and a .2 probability of cycling. The probability of being late is .15 when taking the bus, .05 when driving a car, and .1 when cycling. What is the probability of taking the bus and being on time, or driving a car and being on time?

- A. .76
- B. .32
- **C. .72**
- D. .34

Answer: C

Explanation:

This item requires multiplying conditional probabilities and then adding mutually exclusive outcomes.

"Taking the bus and being on time" means the commuter takes the bus and is not late. Since the probability of being late by bus is .15, the probability of being on time by bus is $1 - .15 = .85$. Therefore, $P(\text{bus and on time})$

$= .4 \times .85 = .34$. For driving, the probability of being late is .05, so the probability of being on time is $1 - .05$

$= .95$. Therefore, $P(\text{car and on time}) = .4 \times .95 = .38$. Because a commuter cannot both take the bus and drive a car on the same trip, the events are mutually exclusive. Add the two joint probabilities: $.34 + .38 = .72$. The cycling information is not used because the question asks only about bus-on-time or car-on-time outcomes.

References/topics from the Study Guide: probability rules, complements, conditional probability, mutually exclusive events.

NEW QUESTION # 123

Probability cannot be:

- A. 0
- B. 1
- C. Between 0-1
- D. Negative

Answer: D

Explanation:

Probability values must lie between 0 and 1, inclusive. A probability of 0 means an event is impossible, while a probability of 1 means an event is certain. Values between 0 and 1 represent events with varying degrees of likelihood. A negative probability has no valid interpretation in standard probability theory because probability measures relative likelihood or long-run frequency, and neither can be less than zero. Option B is allowed because impossible events have probability 0. Option C is allowed because certain events have probability 1. Option D is allowed because ordinary uncertain events have probabilities strictly between 0 and 1. For example, the probability of rolling a 3 on a fair die is $1/6$, which lies between 0 and 1. The only invalid option listed is negative probability. Study Guide references/topics: probability axioms, probability range, impossible events, certain events.

NEW QUESTION # 124

Two dice rolled. Probability sum = 7?

- A. 6/36
- B. 5/36
- C. 1/12
- D. 1/6

Answer: A

Explanation:

When two standard six-sided dice are rolled, there are $6 \times 6 = 36$ equally likely ordered outcomes. To find the probability that the sum is 7, count all ordered pairs that produce 7. These are (1,6), (2,5), (3,4), (4,3), (5,2), and (6,1). There are 6 favorable outcomes. Therefore, the probability is $6/36$, which simplifies to $1/6$. Since the answer choices include both $6/36$ and $1/6$, the listed answer from the PDF uses the unsimplified equivalent form, $6/36$. Option C, $5/36$, omits one valid ordered pair. Option D, $1/12$, is too small because it would represent only 3 favorable outcomes out of 36. This problem reinforces that dice outcomes are ordered when two dice are rolled, so (1,6) and (6,1) are counted separately. Study Guide references/topics: sample spaces, dice probability, favorable outcomes, theoretical probability.

NEW QUESTION # 125

Independent events: $P(A|B) = ?$

- A. 0
- B. $P(B)$
- C. $P(A) + P(B)$
- D. $P(A)$

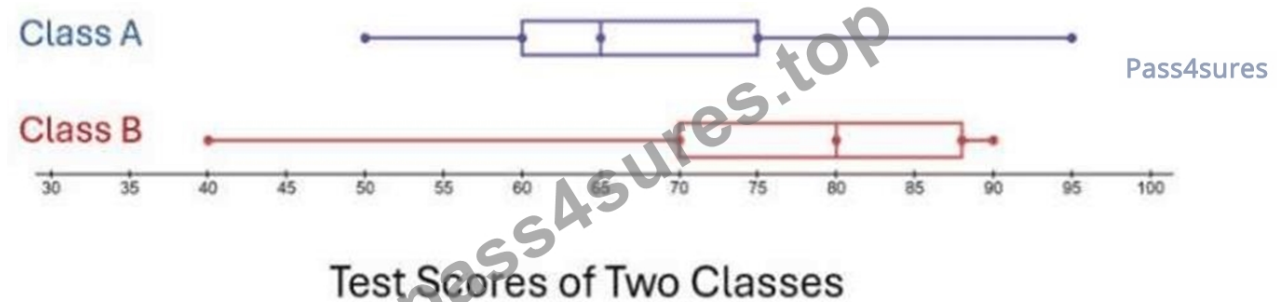
Answer: D

Explanation:

For independent events, the occurrence of one event does not change the probability of the other. Conditional probability $P(A|B)$ means the probability of A occurring given that B has occurred. If A and B are independent, knowing B occurred gives no new information about A. Therefore, $P(A|B) = P(A)$. This is one of the defining properties of independence. For example, if a coin toss and a die roll are independent, knowing the die landed on 4 does not change the probability that the coin landed heads; it remains $1/2$. Option B reverses the event being measured. Option C would imply that A becomes impossible after B, which describes a different situation. Option D is an addition expression and does not represent conditional probability. The correct relationship is that the conditional probability equals the original probability when events are independent. Study Guide references/topics: independent events, conditional probability, probability rules, event relationships.

NEW QUESTION # 126

A teacher compares the test scores of two classes using a box plot.



What is true about the median test scores?

- A. The median test scores of Class A are 15 points less than those of Class B.
- B. The median test scores of Class A are 10 points less than those of Class B.
- C. The median test scores of Class A are 18 points less than those of Class B.
- D. The median test scores of Class A are 20 points less than those of Class B.

Answer: A

Explanation:

A box plot displays the five-number summary, including the median, which is shown by the vertical line inside each box. In the exhibit, the median for Class A is positioned at approximately 65, while the median for Class B is positioned at approximately 80. The difference is therefore $80 - 65 = 15$ points. Since Class A's median is lower, the correct interpretation is that the median test score of Class A is 15 points less than that of Class B. This comparison uses a categorical grouping variable, class, and a quantitative response variable, test score. The box plot is appropriate because it allows the distributions of two groups to be compared visually using medians, quartiles, ranges, and potential spread. Options A, B, and D do not match the median locations shown by the center lines in the boxes. References/topics from the Study Guide: box plots, median, five- number summary, comparing distributions.

NEW QUESTION # 127

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