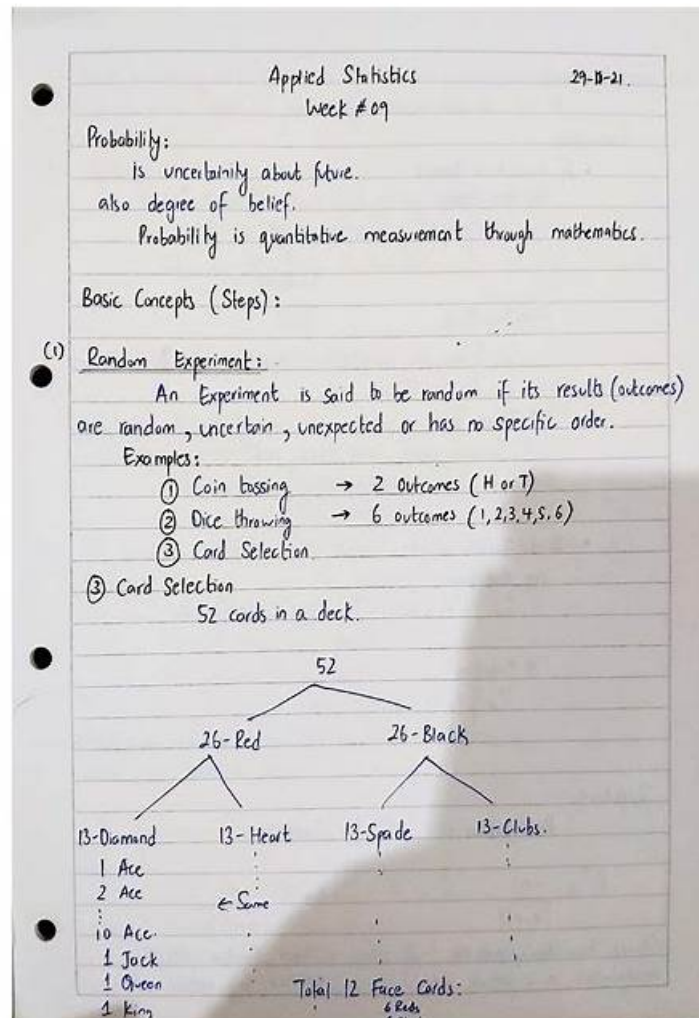


Simplified Applied-Probability-and-Statistics Guide Dump is an Easy to Be Mastered Training Materials



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

Section

Objectives

Topic 1: Probability

- Probability rules
 - 1. Bayes' theorem (introductory level)
 - 2. Addition and multiplication rules
- Fundamental probability concepts
 - 1. Events and sample spaces
 - 2. Conditional probability and independence

	- Relationship analysis
Topic 2: Regression and Correlation	• 1. Simple linear regression basics • 2. Correlation coefficient interpretation
	- Continuous distributions
	• 1. Standard normal and z-scores • 2. Normal distribution
Topic 3: Probability Distributions	- Discrete distributions
	• 1. Binomial distribution • 2. Poisson distribution (introductory use cases)
	- Data summarization
	• 1. Measures of central tendency (mean, median, mode) • 2. Measures of variability (range, variance, standard deviation)
Topic 4: Descriptive Statistics	- Data visualization
	• 1. Box plots and interpretation • 2. Histograms and frequency distributions
	- Estimation
	• 1. Confidence intervals for means and proportions
Topic 5: Statistical Inference	- Hypothesis testing
	• 1. Null and alternative hypotheses • 2. t-tests and z-tests (basic application)

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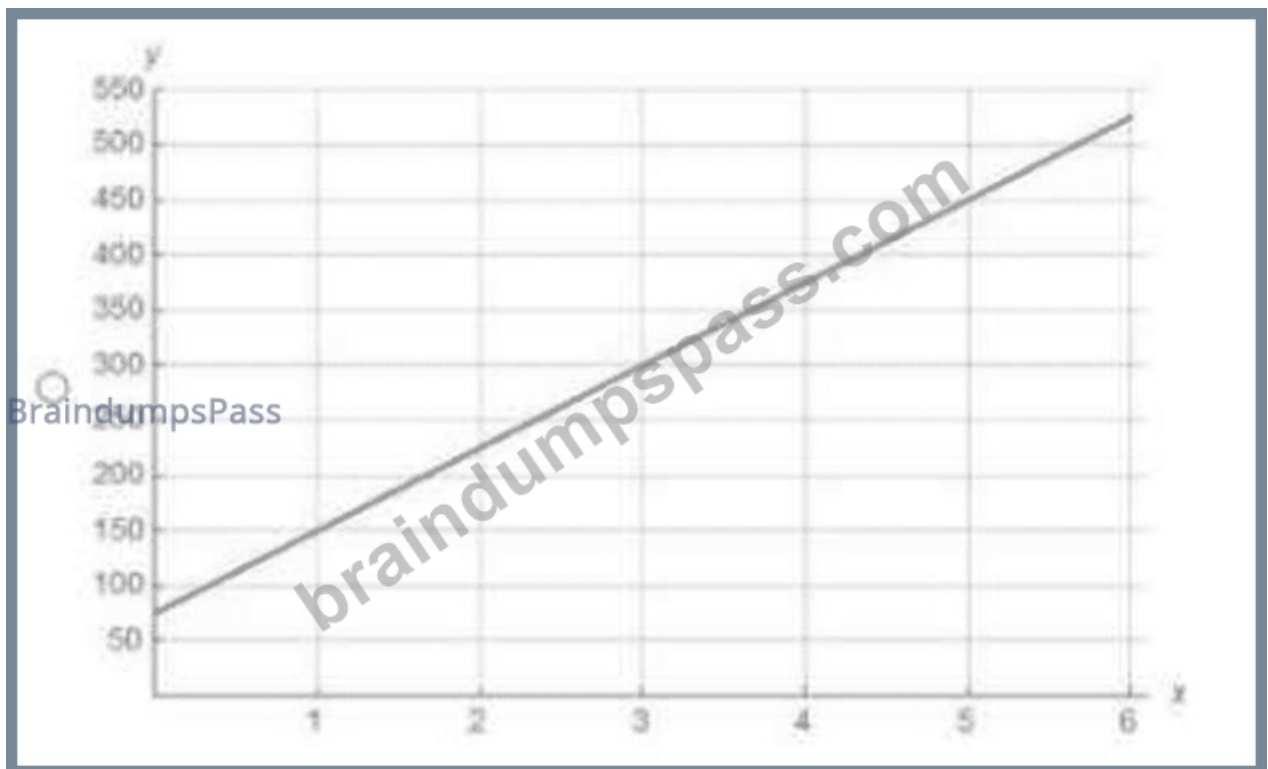
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WGU Applied Probability and Statistics (FZO1 C955) Sample Questions (Q152-Q157):

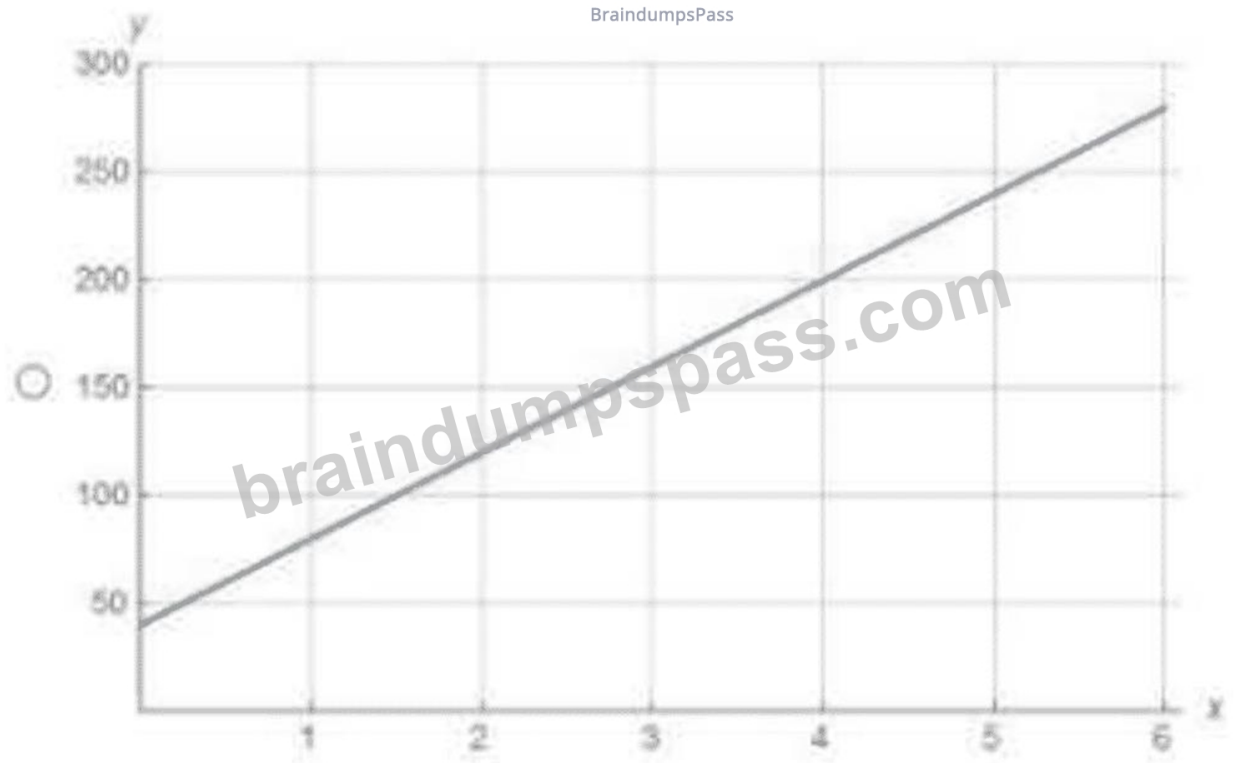
NEW QUESTION # 152

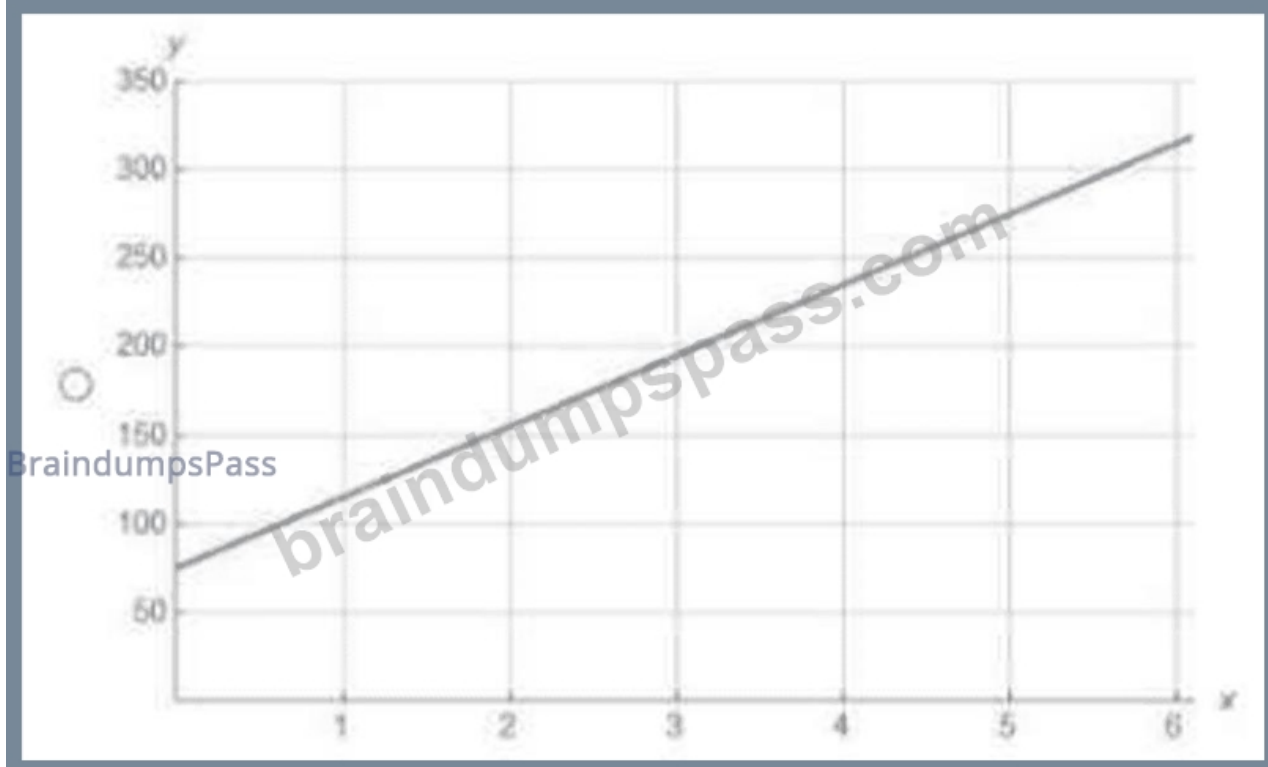
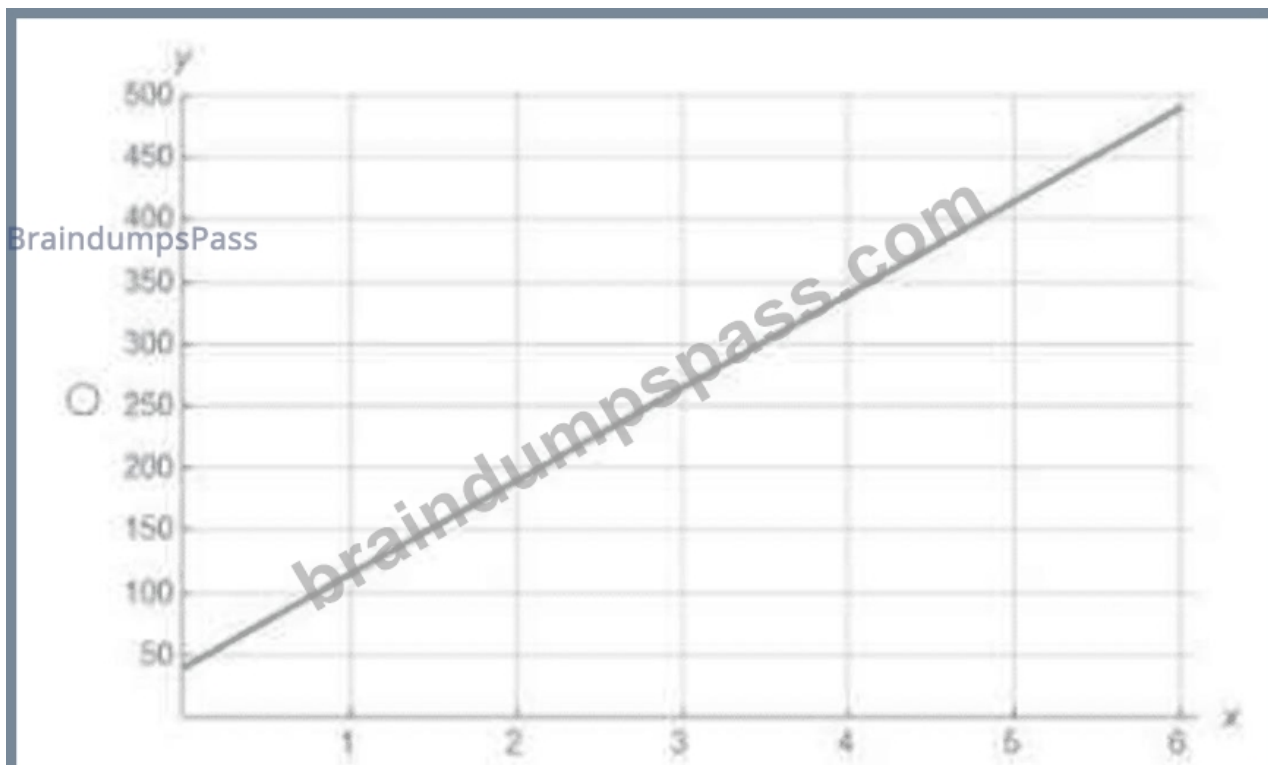
A recording studio raises its use fee to \$75 and charges \$40 per hour for studio time. The equation of the total cost of a recording session as a function of studio time is $y = 40x + 75$.

Which graph represents this equation?



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- A. Graph 2
- **B. Graph 4**
- C. Graph 1
- D. Graph 3

Answer: B

Explanation:

The equation $y = 40x + 75$ is written in slope-intercept form, $y = mx + b$. In this form, m represents the rate of change and b represents the initial value. The constant term 75 means the graph must cross the y-axis at 75, because the studio charges \$75 before any hourly time is added. The coefficient 40 means that for every additional hour of studio time, the total cost increases by \$40. Therefore, the correct graph must begin at $y =$

75 when $x = 0$ and rise at a steady linear rate of 40 dollars per hour. For example, at $x = 6$ hours, the model gives $y = 40(6) + 75 = 315$, so the line should pass near the point (6, 315). Among the displayed graphs, Graph 4 matches both the y-intercept and the slope. References/topics from the Study Guide: basic algebra, linear equations, slope-intercept form, interpreting rate of change.

NEW QUESTION # 153

Conditional probability formula:

- A. $P(A) \times P(B)$
- B. $P(A|B) = P(A \text{ and } B)/P(B)$
- C. $P(A)/P(B)$
- D. $P(B)/P(A)$

Answer: B

Explanation:

Conditional probability measures the probability that event A occurs given that event B has already occurred.

The formula is $P(A|B) = P(A \text{ and } B)/P(B)$, assuming $P(B)$ is greater than zero. The denominator $P(B)$ restricts the sample space to cases where B occurs, and the numerator $P(A \text{ and } B)$ counts cases where both A and B occur within that restricted space. Option B is incorrect because it divides $P(A)$ by $P(B)$ without requiring overlap between A and B. Option C reverses the conditioning and would relate to $P(B|A)$ only if the numerator were $P(A \text{ and } B)$. Option D applies to independent events when finding $P(A \text{ and } B)$, not to conditional probability in general. The vertical bar in $P(A|B)$ is read as "given," and it signals that the denominator should be the probability of the given event. Study Guide references/topics: conditional probability, joint probability, event intersection, probability rules.

NEW QUESTION # 154

Probability sum for all outcomes = ?

- A. 0
- B. > 1
- C. < 1
- D. 1

Answer: A

Explanation:

In any valid probability model, the probabilities of all outcomes in the sample space must sum to 1. The sample space is the complete set of possible outcomes for an experiment, and exactly one outcome from that set must occur. A total probability of 1 represents certainty. For example, when rolling a fair six-sided die, the six outcomes each have probability $1/6$, and their sum is $6 \times 1/6 = 1$. A total of 0 would imply no possible outcome can occur, which is not a valid probability model. A total greater than 1 violates the maximum boundary of probability, and a total less than 1 would mean the sample space is incomplete or some probability has been omitted. This rule is one of the axioms of probability and is used to verify distributions.

Study Guide references/topics: sample space, probability axioms, total probability, probability distributions.

NEW QUESTION # 155

Empirical probability is based on:

- A. Observed frequency of events
- B. Theoretical models
- C. Classical calculation
- D. Subjective guess

Answer: A

Explanation:

Empirical probability is based on observed data collected from experiments, surveys, simulations, or repeated trials. It is calculated as the relative frequency of an event: number of times the event occurs divided by the total number of trials or observations. For example, if a machine produces 12 defective items in a sample of 300, the empirical probability of a defect is $12/300 = 0.04$. This differs from classical or theoretical probability, which is based on

equally likely outcomes and mathematical structure, such as a fair die having probability $1/6$ for each face. It also differs from subjective probability, which is based on personal judgment or expert belief rather than observed frequency. The word "empirical" signals evidence obtained through observation, so observed frequency is the correct basis. Study Guide references/topics: empirical probability, relative frequency, observed data, probability interpretation.

NEW QUESTION # 156

Sample mean = best point estimate of population mean?

- A. Only for categorical data
- B. False
- **C. True**
- D. Only when the sample size is 1

Answer: C

Explanation:

The sample mean is the standard point estimate for the population mean. A point estimate is a single statistic calculated from sample data and used to estimate an unknown population parameter. If the parameter of interest is the population mean μ , the corresponding sample statistic is $\bar{x}$. Therefore, the statement is true.

This does not mean the sample mean is guaranteed to equal the population mean exactly; sampling variability can cause sample means to differ from the true population mean. However, the sample mean is unbiased under random sampling and becomes more stable as sample size increases. Confidence intervals expand this idea by placing a margin of error around the sample mean. Option B is incorrect because the sample mean is precisely the conventional point estimator for μ . Options C and D impose invalid restrictions. Study Guide references/topics: sample mean, population mean, point estimate, sampling variability.

NEW QUESTION # 157

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