ARKANSAS STATISTICS · UNIT 3 · 10 QUESTIONS

Statistical Inference — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A p value is 0.40 and the significance level is 0.05 The decision is to**

- A Reject the null hypothesis
- B Prove the null hypothesis
- C Fail to reject the null hypothesis
- D Double the sample

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2 **The significance level is the probability of a Type 1 error that the researcher is willing to**

- A Avoid completely
- B Ignore
- C Double
- D Accept

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3 **Power is the probability of correctly rejecting a**

A False null hypothesis

B True null hypothesis

C True alternative only

D Biased sample

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4 **A one sided test is used when the alternative hypothesis specifies a**

A Sample size

B Direction

C Confidence level

D Bias

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5 **Stratified sampling divides the population into groups and samples from**

A One group only

B Volunteers only

C Each group

D The largest group only

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6 **Cluster sampling samples whole groups that are**

A Identical in size only

B Volunteers

C Strata

D Chosen at random

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7 **Undercoverage bias occurs when some members of the population have**

- **A** Little or no chance of selection
- **B** Too much chance of selection
- **C** Equal chance
- **D** Double chance

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8 **Nonresponse bias occurs when those who do not respond**

- **A** Are identical to responders
- **B** Differ from responders in important ways
- **C** Are too few to matter
- **D** Are excluded from the population

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9 **A sample mean is 44 , the population mean under the null hypothesis is 40 , and the standard error is 2 The test statistic is $\frac{4}{2}$ The test statistic is**

A 0.5

B 1

C 2

D 4

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10 **A population standard deviation is 24 and the sample size is 16 What is the standard error of the sample mean**

ANSWER _____

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ANSWER KEY

1.	C	**5.**	C	**9.**	C
2.	D	**6.**	D	**10.**	6
3.	A	**7.**	A		
4.	B	**8.**	B		

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