ARIZONA 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 **Failing to reject the null hypothesis does NOT mean the null is**

- A Unproven
- B Proven true
- C Tested
- D Unclear

Understand It with Pulse | Flag a mistake

2 **A statistically significant result may still be too small to matter in practice This is the difference between statistical and**

- A Practical significance
- B Random significance
- C Sample significance
- D Population significance

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3 **In a paired test, each pair gives one difference and the test is done on the**

- A Original values
- B Differences
- C Variances
- D Proportions

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4 **A two sample test compares the means of**

- A One sample
- B Two independent samples
- C Two parameters
- D Two populations only

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5 **If a 95% confidence interval for a difference in means contains zero, the difference is not statistically significant at the 5% level. This is**

- A True
- B False
- C Only for large samples
- D Only for proportions

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6 **Random sampling is needed for inference mainly to avoid**

- A Large samples
- B Variation
- C Bias
- D Confidence

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7 **A sample mean is 70 with a standard error of 4. An approximate 95% confidence interval is**

A 62 to 78

B 66 to 74

C 70 to 78

D 62 to 70

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8 **A sample proportion is 0.4 in a sample of 250. How many successes were observed?**

ANSWER _____

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9 **The standard error of a mean gets smaller when the sample size**

- A Gets smaller
- B Gets larger
- C Stays the same
- D Becomes zero

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10 **A p value of 0.001 is stronger evidence against the null than a p value of**

- A 0.04
- B 0.001
- C 0.0001
- D 0.0005

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ANSWER KEY

1.	B	**5.**	A	**9.**	B
2.	A	**6.**	C	**10.**	A
3.	B	**7.**	A		
4.	B	**8.**	100		

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