

PSY516 - Statistics in Psychology (Quiz 3)

Question # 8 of 10 (Start time: 11:30:38 PM, 10 January 2024)

In hypothesis testing which of the following errors occur when a researcher fails to reject a null hypothesis that is really false?

Select the correct option

- Type II error
- Type I error
- Standard error
- Standard error of estimate

Question # 3 of 10 (**Start time: 11:24:08 PM, 10 January 2024**)

In general, which of the following factors produces greater power for a hypothesis test?

Select the correct option

- Independent observations
- A larger sample
- Standard error
- Alpha level

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Question # 2 of 10 (Start time: 11:23:09 PM, 10 January 2024)

Which of the following is defined as the rule or formula to test a null hypothesis?

Select the correct option

- Test statistic
- Variance statistic
- Population statistic
- Null statistic

Question # 1 of 10 [Start time: 11:21:30 PM, 10 January 2024]

In research if two sets of data could come from two completely separate groups of participants, which type of statistical tests will be appropriate for testing the tenability of null hypothesis?

Select the correct option

- repeated measure
- Wilcoxon t-test
- Post hoc test
- independent t-test





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Question # 9 of 10 (start time: 08:51:39 PM, 10 January 2024)

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In hypothesis testing which of the following scores generally decide about the rejection and acceptance of a hypothesis?

Select the correct option

 Reload Math

- | | |
|----------------------------------|--|
| <input checked="" type="radio"/> | Z-scores  |
| <input type="radio"/> | X-scores |
| <input type="radio"/> | t-score |
| <input type="radio"/> | f-score |

Click to Save Answer & Move to Next Q



Question # 8 of 10 (**Start time: 08:50:53 PM, 10 January 2024**)

In SPSS the dependent variable is also called as:

Select the correct option



Grouping variable



Interdependent variable



Test variable



Categorical variable





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Question # 7 of 10 (start time: 08:49:40 PM, 10 January 2024)

Which of the following scores formula for hypothesis testing requires more information than is usually available?

Select the correct option

Reload Math

- F-scores
- t-scores
- z-scores
- X-scores

Click to Save Answer & Move to Next Q

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Done



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Question # 6 of 10 (start time: 08:49:01 PM, 10 January 2024)

In hypothesis testing it is assumed that the participants used in the study were selected:

Select the correct option

- | | |
|----------------------------------|--------------|
| <input type="radio"/> | Evenly |
| <input checked="" type="radio"/> | Randomly |
| <input type="radio"/> | Specifically |
| <input type="radio"/> | Commonly |

Question # 5 of 10 (start time: 08:47:54 PM, 10 January 2024)

In hypothesis testing a sample value in the critical region is very unlikely to occur when:

select the correct option

 Reload



Null hypothesis is true



Alternative hypothesis is false



Alternative hypothesis is true



Null hypothesis is false



Question # 4 of 10 (**start time: 08:47:23 PM, 10 January 2024**)

The probability of Type 1 error is referred as:

Select the correct option

<input type="radio"/>	β
<input type="radio"/>	$1-\alpha$
<input type="radio"/>	$1-\beta$
<input type="radio"/>	α

 Swipe up for filters



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Question # 3 of 10 (Start time: 08:46:26 PM, 10 January 2024)

Hypothesis testing procedure uses _____ to reach a conclusion about the population parameter.

Select the correct option

 Reload

- | | |
|-----------------------|-----------------------|
| <input type="radio"/> | Population statistics |
| <input type="radio"/> | Level of Significance |
| <input type="radio"/> | Test-Statistic |
| <input type="radio"/> | Sample statistics |
- 

Click to Save Answer & Move to

Question # 2 of 10 (**start time: 08:45:36 PM, 10 January 2024**)

which of the following tests requires assumptions about parameters?

select the correct option

<input type="radio"/>	Kruskal Willis test
<input type="radio"/>	Parametric test
<input type="radio"/>	Non parametric test
<input type="radio"/>	Mann-Whitney-Wilcoxon

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Question # 1 of 10 (**start time: 08:44:55 PM, 10 January 2024**)

A researcher needs all of the following from a sample EXCEPT:

Select the correct option

- | | |
|-----------------------|------------------------|
| <input type="radio"/> | Standard error |
| <input type="radio"/> | Mean |
| <input type="radio"/> | Number of observations |
| <input type="radio"/> | Standard deviation |
- 

In hypothesis testing the alpha level determines the probability of which of the following errors

Select the correct option

- Type I error
- Type II error
- Standard error
- Standard error of estimate

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Question # 9 of 10 (Start time: 08:42:03 PM, 10 January 2024)

T distribution is used to compute _____ % confidence interval for the population *mean* based on smaller samples.

Select the correct option

- 97
- 80
- 95
- 89



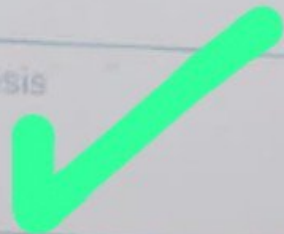
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Question # 8 of 10 (Start time: 08:41:16 PM, 10 January 2024)

The power of a test is defined as the probability that the test will:

Select the correct option

- Reject alternative hypothesis
- Reject the null hypothesis
- Accept alternative hypothesis
- Accept the null hypothesis



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Question # 7 of 10 (Start time: 08:40:13 PM, 10 January 2024)

In general, which of the following factors produces greater power for a hypothesis test?

Select the correct option

- Standard error
- Independent observations
- Alpha level
- A larger sample

Question # 6 of 10 (Start time: 08:39:33 PM, 10 January 2024)

Total Marks:

A group of 10 students was randomly drawn from class 12 and was given yoga training for three weeks. Their wellness life style was compared with another similarly selected group which did not undergo such training. Which type of statistical test will be appropriate for testing the tenability of null hypothesis?

Select the correct option

 Reload Math Equations

- Wilcoxon T-test
- Independent t-test
- Sign test
- Post hoc test

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Quiz Start

Question # 5 of 10 (Start time: 08:38:37 PM, 10 January 2024)

Statistical conclusion is a decision to accept or reject a null hypothesis. In which of the following steps of hypothesis testing, researchers draw a statistical

Select the correct option

5th

2nd

3rd

4th



Question # 4 of 10 (Start time: 08:37:57 PM, 10 January 2024)

In which of the following designs research question is concerned with a mean difference between two sets of data?

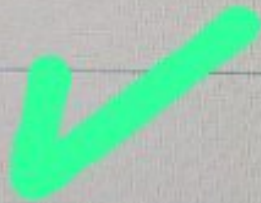
Select the correct option

Repeated measure-subject design

Paired sample -subject design

Between-subject design

Within-subject design



Question # 3 of 10 (Start time: 08:36:50 PM, 10 January 2024)

Which of the following formulas is considered for a 95% confidence interval for a population mean?

Select the correct option



Sample mean \pm 1 standard errors



Population mean \pm 1 standard errors



Sample mean \pm 2 standard errors



Population mean \pm 2 standard errors

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Question # 2 of 10 (**Start time: 08:36:20 PM, 10 January 2024**)

Differences between two groups of participants is assessed through:

Select the correct option

- Independent sample t-test
- Two way ANOVA
- Simple linear Regression
- Pearson Product Moment Correlation



Question # 1 of 10 (Start time: 08:35:33 PM, 10 January 2024)

Which of the following is assumed to remain same in hypothesis testing for the unknown population after treatment and before treatment?

Select the correct option

- Mean
- Standard deviation
- Median
- Mode

