Sway

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Quiz name

Weekly quiz 2 (DUE: Fri Aug 11, 10 am)

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1 | **SHORT ANSWER**   Edit   ✕

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Suppose your professor splits the students in class into two groups: students on the left and students on the right. If pL and pR represent the proportion of students who own an Apple product on the left and right, respectively. While the proportions would probably be close to each other, they are probably not exactly the same. We would probably observe a small difference due to _____

Answer

chance

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2 | MULTIPLE CHOICE   Edit

The participants in this study were 48 male bank supervisors attending a management institute at the University of North Carolina in 1972. They were asked to assume the role of the personnel director of a bank and were given a personnel file to judge whether the person should be promoted to a branch manager position. The files given to the participants were identical, except that half of them indicated the candidate was male and the other half indicated the candidate was female. These files were randomly assigned to the subjects. (This description is used for several questions below.)

Is this an observational study or an experiment?

Answer choices

A	Observational
B	Experiment
C	Neither
D	Both

3 | MULTIPLE CHOICE   Edit

"The variables gender and decision are independent." This is the

Answer choices

A	null hypothesis
B	alternative hypothesis
C	decision
D	assumption

4 | MULTIPLE CHOICE   Edit

"The variables gender and decision are not independent. Equally qualified females are less likely to be promoted than males." This is the

Answer choices

A	null hypothesis
B	alternative hypothesis
C	decision
D	assumption

5 | SHORT ANSWER   Edit

In this _____, we thoroughly shuffle 48 personnel files, 24 labeled male and 24 labeled female, and deal these files into two stacks. We will deal 35 files into the first stack, which will represent the 35 supervisors who recommended promotion. The second stack will have 13 files, and it will represent the 13 supervisors who recommended against promotion.

Answer

simulation

6 | MULTIPLE CHOICE

Edit

The hallmarks of hypothesis testing are also found in the US court system. A US court considers two possible claims about a defendant: she is either innocent or guilty. If we set these claims up in a hypothesis framework, which would be the null hypothesis?

Answer choices

A	the person is innocent until evidence is presented that convinces the jury that the person is guilty
B	the person is guilty until evidence is presented that convinces the jury that the person is innocent
C	the person is guilty until evidence is presented that convinces the jury that the person is guilty
D	the person is innocent until evidence is presented that convinces the jury that the person is innocent

7 | SHORT ANSWER

Edit

Even if we fail to reject the null hypothesis, we typically do not _____ the null hypothesis as truth

Answer

accept

8 | SHORT ANSWER

Edit

Failing to find strong evidence for the alternative hypothesis is not equivalent to providing evidence that the null hypothesis is _____.
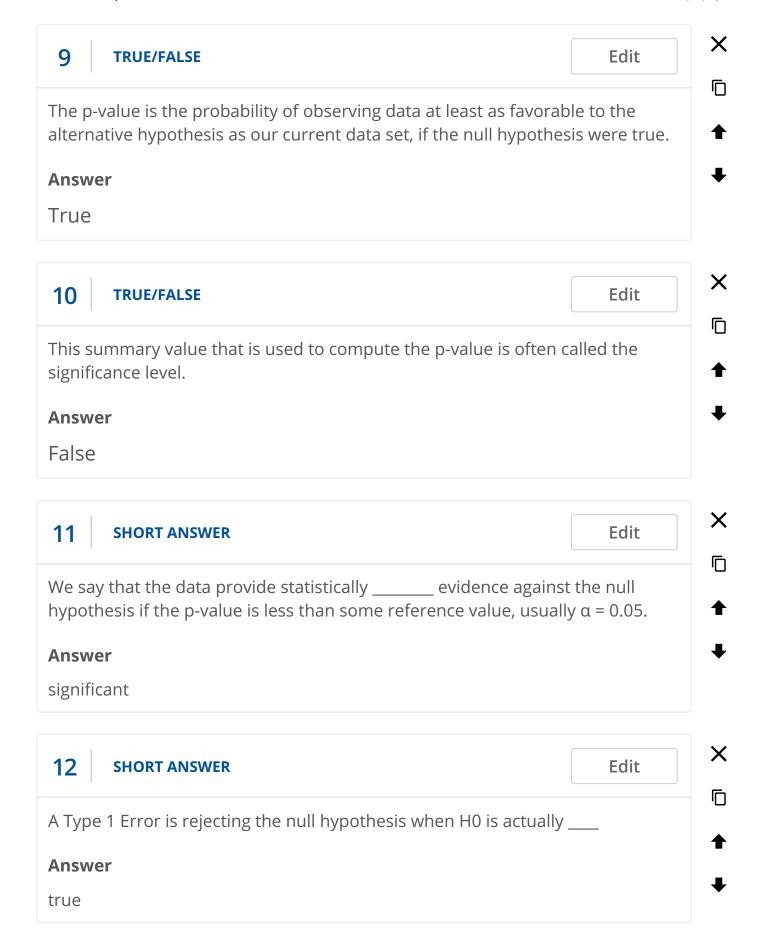
Answer

true

9 | TRUE/FALSE

Edit

The p-value is the probability of observing data at least as favorable to the alternative hypothesis as our current data set, if the null hypothesis were true.

Answer

True

10 | TRUE/FALSE

Edit

This summary value that is used to compute the p-value is often called the significance level.

Answer

False

11 | SHORT ANSWER

Edit

We say that the data provide statistically _____ evidence against the null hypothesis if the p-value is less than some reference value, usually $\alpha = 0.05$.

Answer

significant

12 | SHORT ANSWER

Edit

A Type 1 Error is rejecting the null hypothesis when H0 is actually ____

Answer
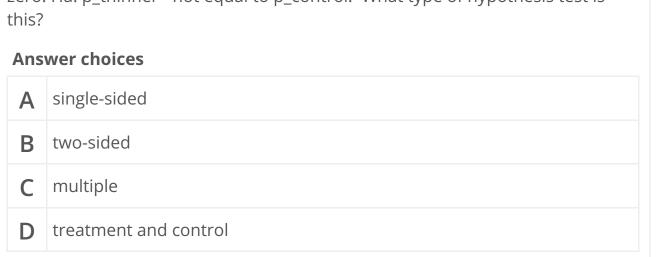
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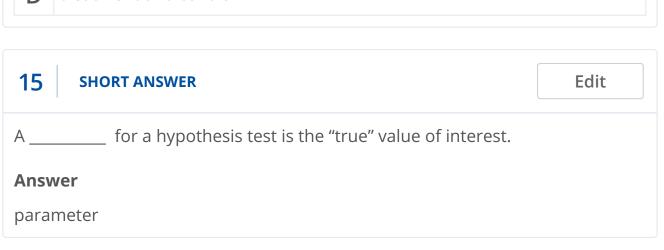
13 | MULTIPLE CHOICE

Edit

In a US court, the defendant is either innocent (Ho, null) or guilty (Ha, alternative). What does a Type 1 Error represent in this context?

Answer choices

A	Finding an innocent defendant guilty
B	Finding a guilty defendant innocent
C	Failing to find an innocent defendant guilty
D	Failing to find a guilty defendant innocent

14 | MULTIPLE CHOICE

Edit

Blood thinners have an impact on survival, either positive or negative, but not zero. Ha: p_thinner =not equal to p_control. What type of hypothesis test is this?

Answer choices

A	single-sided
B	two-sided
C	multiple
D	treatment and control

15 | SHORT ANSWER

Edit

A _____ for a hypothesis test is the "true" value of interest.

Answer

parameter

+ Multiple Choice   + True/False   + Short Answer

+ Multiple Choice   + True/False   + Short Answer