

Quiz 7

⚠ This is a preview of the published version of the quiz

Started: Jun 22 at 9:12pm

Quiz Instructions



Question 1 1 pts

What is type I error?

☐

Reject a true null hypothesis.

☐

Making a wrong conclusion in hypothesis testing.

☐

Reject a true alternative hypothesis.

☐

Accept a false null hypothesis.



Question 2 1 pts

What is a p-value?

☐

The probability the alternative hypothesis is false.

☐

How likely to see the observed data or something even more extreme towards the alternative hypothesis if null hypothesis is true.

☐
The probability your observed statistic is larger than simulated statistic.

☐
The probability the null hypothesis is true.



Question 3 1 pts

What is significance level alpha?

☐
It must be 5% or 10%.

☐
It is the upper bound of type I error we want to control.

☐
It is the probability of making type I error.

☐
It is the probability of making type II error.



Question 4 1 pts

Which of the following questions can we approach using hypothesis testing?

☐
Do students go to in-person sessions do better in final exams than those who attend Zoom sessions?

☐
All of them!

☐
Does a particular poll for presidential election contain too many people with college degrees?

☐
Do COVID vaccines work for kids?



Question 5 1 pts

Which of the following is true when we reject the null hypothesis using significance level 1%?

- ☐ The null hypothesis must be false.
- ☐ The alternative hypothesis must be true.
- ☐ Something very unlikely happened if the null hypothesis is true.
- ☐ Your paper will be published due to a new discovery.

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