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Hypothesis Testing



SPEAKER: MICHAEL J. MAHOMETA, Ph.D.

In a lot of ways, statistics and real life go hand in hand.

Now, I don't just simply mean that we can use statistics

in our everyday lives - because that's certainly true.

▶ 0:00 / 7:23

▶ 1.0x


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Comprehension Check

1. In statistical inference, measurements are made on a _____, and generalizations are made to a _____.

(1/1 point)

Lab due May 03, 2016
at 17:00 UTC 

Problem Set

Problem Set due May
03, 2016 at 17:00 UTC 

☐ population; parameter

☐ population; sample


☐ parameter; sample

☒ sample; population 

2. Which hypothesis depicts the research hypothesis--the statement that we hope to demonstrate is true?

(1/1 point)

☐ Null hypothesis

☒ Alternative hypothesis 

3. Hypothesis tests are based on samples, and therefore are prone to sampling error. Identity how you would categorize each of the following outcomes of a drug study test:

(1/1 point)

3a. Truth: The drug is ineffective. The test on your sample leads you to conclude that it is effective.

Type I error ▼



Answer: Type I error

(1/1 point)

3b. Truth: The drug reduces allergies. The test on your sample leads you to conclude that it is effective.

Correct Conclusion ▾



Answer: Correct Conclusion

(1/1 point)

3c. Truth: the drug is ineffective. The test on your sample leads you to conclude that it is ineffective.

Correct Conclusion ▾



Answer: Correct Conclusion

(1/1 point)

3d. Truth: the drug does reduce allergies. The test on your sample leads you to conclude that it does not reduce allergies.

Type II error ▾



Answer: Type II error

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