

Lab section: _____

Your initials: _____

Psy 10, Quiz 1

1. Researchers report that the lesion of hippocampus led to a significant drop in rat's performance, with $p = 0.04$. This means that if another group of researchers have attempted to replicate this experiment, they would have a 96% chance of obtaining similar results.
 - a. True
 - b. False

2. You read in a scientific article that high school students who had breakfast score significantly higher on a memory test than students who have not had breakfast. This means that the difference obtained by scientists is unlikely to have occurred by chance.
 - a. True
 - b. False

3. When researchers report that the difference between two means is significant with probability value of 0.03, this means that there is 97% probability that their alternative hypothesis is true.
 - a. True
 - b. False

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Psy 10, Quiz 2

1. You read in a scientific article that people who drink 1-2 cups of coffee a day are significantly less likely to have Alzheimer's disease later in life. This means that the difference in probability of having Alzheimer's disease is unlikely to have been obtained due to random error.
 - a. True
 - b. False

2. Next day, you read another article that states that people who drink more than 4 cups of coffee a day are more likely to suffer from a heart attack, with a $p=0.01$. This means that if another group of researchers have attempted to replicate this experiment, they would have a 99% chance of obtaining similar results.
 - a. True
 - b. False

3. When researchers report that one drug is more effective than another for treating depression, with a probability value of $p = 0.01$, this means that there is 1% probability that there is no difference between the two drugs.
 - a. True
 - b. False

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Thank you for helping us compare two different ways of teaching a process of hypothesis testing! In addition to collecting objective data (the proportion of correct answers on quizzes), we would like to learn about your opinions with respect to two worksheets.

1. Circle the worksheet/activity that you think was most beneficial for your understanding of how to interpret p-value
 - a. Worksheet A
 - b. Worksheet B (Excel activity)

2. Circle the worksheet/activity that you found most enjoyable and/or interesting
 - a. Worksheet A
 - b. Worksheet B (Excel activity)

3. Feel free to share any other thoughts or observations that could help us decide which of the worksheets is better for teaching these concepts:
