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Name:
Section:

Predator Response Ex: Native Pacific Treefrog Tadpoles vs. African Clawed Frog?

Pre-Lab Q

Question 1. Before collecting data, answer this prompt. Given that a typical anti-predator response for tadpoles is reduced activity what is your prediction for the outcome of this study?:

Data Analysis

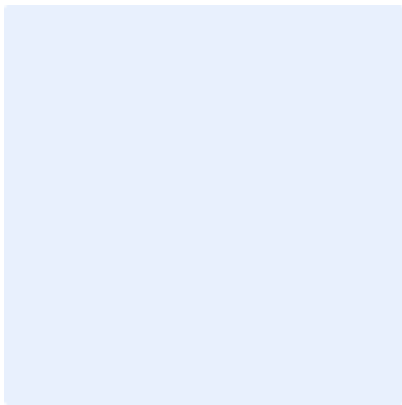
Question 2. What type of statistical test should be performed to determine if the treefrog tadpoles respond to the presence of the African Clawed Frog. Provide reasoning for your answer. (Hint this is continuous data!)

Question 3. In the space provided, perform the statistical test. Show your work please.

H₀:

H_A:

Statistical Test Performed (either text or image):



Response Q's

Question 4. Let's think about incentivization. Respond to the below scenarios and provide reasoning for your answer.

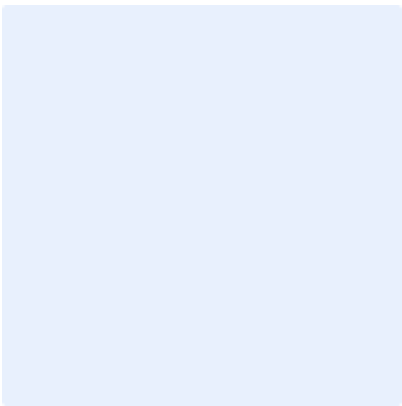
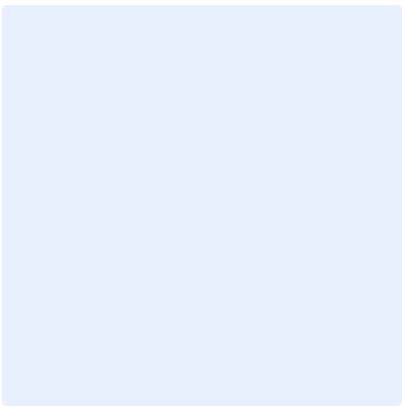
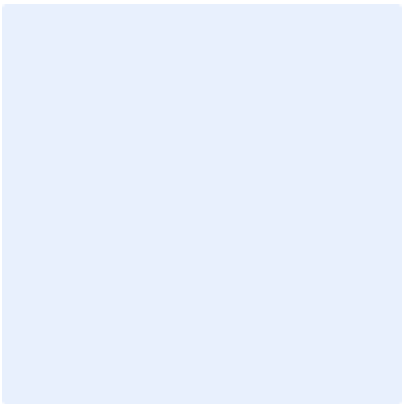
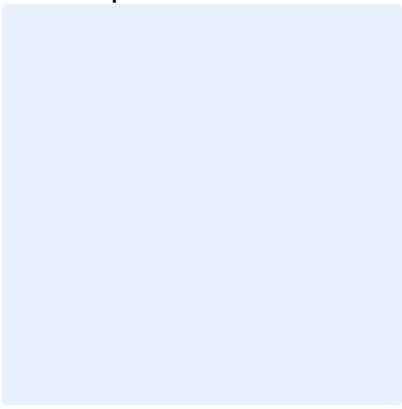
Scenario 1: A treatment tadpole (in the presence of an African Clawed Frog) has yet to be fed. Food was just deposited in the treatment bin in such a manner that the food is attainable but requires movement to access. How might the subsequent behavior of this tadpole differ (if at all) from a hungry treatment tadpole that has not had food placed in its bin?

Scenario 2: A treatment tadpole has just been fed. If food were to be deposited in its bin in the same manner as the previous scenario how might its behavior differ (if at all) from a well - fed Treatment tadpole with no food available?

How might a fed tadpole's response compare to an unfed tadpole when food is deposited in the presence of a predator? Why? What about when food is deposited without a predator? Think about risk assessment and explain your reasoning.

Question 5. Were there any possible sources of error (Experimental, Human) that may have muddied the results of this study? List and explain possible ramifications.

Extra Space to Show Work If Needed:





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