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### Fighting and Assessment of Dominance in House Crickets

#### Pre-Lab:

**Question 1.** Do you anticipate the resident or intruder cricket will be the "winner" of more interactions? Discuss in regard to the AVH versus the PHP hypothesis. Why? (3 pts)

**Question 2.** Do you anticipate the larger or smaller cricket will be the "winner" of more interactions? Discuss in regard to the AVH versus the PHP hypothesis. Why? (3 pts)

#### **Data Collection:**

Treatment 1: Large Owner, Small Intruder (3pts)

		Large Owne	r		Small Intrud	ler
Behavior	Total Time	# Dominant	# Submissive	Total Time	# Dominant	# Submissive
Antenna Tap						
Body Raise						
Leg Kick						
Head Butt						
Chase						
Fleeing						
Shudder						
Sing						
Crawl-over						
Go-around						
Jump						

Treatment 1: Sum the number of interactions from the table above (2pts)

	# Interactions Dominant	# Interactions Submissive
Owner		
Intruder		

Treatment 2: Small Owner, Large Intruder (3 pts)

		Small Owner	r	I	Large Intrud	er
Behavior	Total Time	# Dominant	# Submissive	Total Time	# Dominant	# Submissive
Antenna Tap						
Body Raise						
Leg Kick						
Head Butt						
Chase						
Fleeing						
Shudder						
Sing						
Crawl-over						
Go-around						
Jump						

Treatment 2: Sum the number of interactions from the table above (2 pts)

	# Interactions Dominant	# Interactions Submissive
Owner		
Intruder		

**Question 3**. Were there any cases where small crickets dominated over large crickets? Was this more common when an asymmetry of value existed? (3 pts)

Treatment 3: Small Intruder, Large Intruder (3pts)

		Large Intrud	ler		Small Intrud	er
Behavior	Total Time	# Dominant	# Submissive	Total Time	# Dominant	# Submissive
Antenna Tap						
Body Raise						
Leg Kick						
Head Butt						
Chase						
Fleeing						
Shudder						
Sing						
Crawl-over						
Go-around						

Treatment 3: Sum the number of interactions from the table above (2 pts)

	# Interactions  Dominant	# Interactions Submissive
Small		
Large		

### **Data Analysis:**

Using the data below from past years, answer the following questions:

		# Interactions Dominant
Treatments 1	Owner	106
& 2	Intruder	61
Treatment 3	Small Intruder	57
	Large Intruder	135

**Question 4.** Does prior investment in the territory resource result in more dominant behaviors exhibited by house crickets? Show your work. (10pts)

Statistical test: One or two-tailed? Why
Н0:
HA:

Work:

Conclusion:
Question 5. Was this the result you expected? Why or why not? (3 pts)
<b>Question 6.</b> In a neutral territory, does the size of the cricket influence the dominance behaviors exhibited by the individuals, i.e., will larger individuals be more dominant? Show your work. (10 pts)
Statistical test: One or two-tailed? Why?
H0:
HA:
Work:

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COHO	lusion:

**Question 7.** Was this the result you expected? Why or why not? (3 pts)



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