First Name:	Last Name:	
Student ID #:		
PSC 041	Research Methods in Psychology	WQ 2023

# Unit 1 Exam Version D Research Summary

Please answer the following questions in the space provided. Only write on the lines.

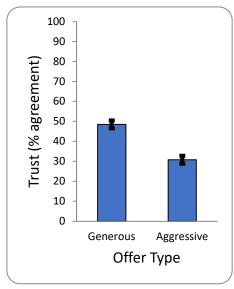
**Adapted from:** Gino, F., Jeong, M., & Minson, J. A. (2020). In Generous Offers I Trust: The Effect of First-Offer Value on Economically Vulnerable Behaviors. Psychological Science.

If we want to negotiate the best price, should we start aggressively or start out being generous? A new study finds that starting out with a generous offer might be the best strategy.

The researchers located 500 valuable bicycles listed for sale on Craigslist. The bicycles were all valued at more than \$1000 and listed as 'like new' condition. The researchers contacted the owners and made an initial offer from a gmail account with a gender-neutral name ("Riley"). The initial offer was randomly assigned to be a low offer or high offer. Low offers were 58% of the asking price. High offers were 78% of asking price. Here is the email that was used in all cases.

"Hey there, that's a sweet ride you have. Definitely interested. I can pay \$xxx for it. Would you be ok with me taking it for a test drive first? Also, is there anything I should know about the bike? Have you had any issues or problems with it? Thanks, Riley."

In all, 363 bike owners responded to this email. Of the 250 emails with high offers, 208 sellers responded. Of the 250 emails with low offers, 155 sellers responded. The email responses were read by undergraduate research assistants and coded as including a written statement that agreed to the potential buyer taking the bike on a test drive or not. Allowing a potential buyer to take a bike for a test ride takes quite a lot of trust. They could just ride off with your bike! More owners who received high offers agreed to a test drive (48.5%) than those who received a low offer (30.8%). The owners who had been offered a favorable deal showed more trust,  $\chi^2(1, N = 363) = 11.61$ , p = .002.



	Hypotheses		
5 pts	1. Write a specific null hypothesis for this research	(be sure to use	e the variable names).
5 pts	2. Sketch the null hypothesis:	Trust (% Agreement)	
		Trust (	
5 pts	3. Write a directional research hypothesis.		Generous Aggressive Offer Type
5 pts	4. Write a specific directional research hypothesis variable names or levels).	for this resear	ch (be sure to use the
			Page 2 of 7

#### **Predictor Variable**

5 pts	5. Name the predictor / independent variable
10 pts	6. How did the researchers operationally define the predictor / independent variable? Describe it using your own words. Be sure to include the levels or values and indicate how the codes will be interpreted.
5 pts	7. The predictor / independent variable is (fill in the box)  Categorical Continuous
5 pts	<ul> <li>8. How was the predictor / independent variable measured? (fill in the box)</li> <li>Observation</li> <li>Self-Report</li> <li>Physiological</li> <li>It was manipulated (under the experimenter's control)</li> </ul>

### **Outcome Variable**

5 pts	9. Name the outcome / dependent variable
10 pts	10. How did the researchers operationally define the outcome / dependent variable? Describe it using your own words. Be sure to include the levels or values and indicate how the codes will be interpreted.
5 pts	<ul> <li>11. The outcome / dependent variable is (fill in the box)</li> <li>Categorical</li> <li>Continuous</li> </ul>
5 pts	<ul> <li>12. How was the outcome / dependent variable measured? (fill in the box)</li> <li>Observation</li> <li>Self-Report</li> <li>Physiological</li> <li>It was manipulated (under the experimenter's control)</li> </ul>
	Another researcher wants to extend this finding using different methods to address a similar research question. This researcher sends another email to set a date for the test ride and asks if the seller would feel more comfortable meeting in a public place or at their house. A response indicating a public place was coded as low trust and a private place was coded as high trust.
5 pts	<ul> <li>13. How was this new outcome / dependent variable measured? (fill in the box)</li> <li>Observation</li> <li>Self-Report</li> <li>Physiological</li> <li>It was manipulated (under the experimenter's control)</li> </ul>

## Summarize the findings (from the original prompt)

5 pts	<ul> <li>14. Is this a value, causal, or associative claim? (fill in the box)</li> <li>Value</li> <li>Causal</li> <li>Associative</li> </ul>
10 pts	15. How do you know? (include specific information from the prompt)
10 pts	16. How do you know that this satisfies Mill's criteria of temporal precedence?
10 pts	17. How do you know that this satisfies Mill's criteria of elimination of alternative explanations?
10 pts	18. Does this interpretation follow from this study: "We found that giving a generous offer was not related to trust." Why or why not?
	$P_{\text{age }}                                  $

### Multiple choice/ fill in the blank / short answer.

Select the <u>single best answer</u>. Indicate your choice by filling in the box to the left of your selection. Write short answers in the space provided.

3 points each.

19.	Wh	ich of the following is a definition for external validity?
		the degree to which a test or instrument is capable of measuring a concept, trait, or other theoretical entity
		the degree to which a study or experiment is free from flaws and can therefore be taken to represent the true nature of the phenomenon.
		the extent to which the results of research or testing can be generalized beyond the sample that generated them.
20.		ich of the following is the best operational definition for the construct emory"
		Number of pieces of information a person remembers from a video Brain activity measured by EEG
		self-report of how good is your memory (1 = not good to 7 = very good)
21.		ou question the internal validity of a study, which of the following questions uld you be asking?
		How well do the results generalize to the overall population?
		Which statistic should be computed? Were the variables measured accurately?
		Does the predictor variable cause changes in the outcome variable?
22.		than Experimenter wants to know what students eat in the dining halls. at is the best method match?
		observation
		survey physiological monitoring
23.	the	talie Experimenter wants to know if students enjoy sitting with strangers in edining halls. What is the best method match for enjoyment?  observation
		survey physiological monitoring
24.	Wh	at sort of evidence are testimonials from individuals? rational empirical scientific
		anecdatal

25. An important characteristic of science is that it is public. Which of these statements describes this characteristic?	
☐ Scientific inquiry has value independent of any economic value that may result from the research	
<ul> <li>All natural, social, and psychological phenomena are causally determined by preceding events or natural laws</li> </ul>	
Science is based on objective, reproducible evidence and not on pure reason, emotion, or subjective experience	
☐ All scientific knowledge is open to further testing and revision	
26. I believe that fairies exist. I believe that fairies are very shy and that they do not show themselves to people.	
Therefore, if fairies do actually exist, you won't see any fairies. But also, If fairies do not exist, you won't see any fairies.	
Because these two predictions are the same, which characteristic of science does my belief violate? Write a single word:	
27. A researcher reports that 50% of undergraduate students change their major.  What type of claim will the researcher make?  U Value claim	
☐ Association / correlation claim	
□ Causal claim	
28. How do you know?	