First Name:	Last Name:	
Student ID #:		
PSC 041	Research Methods in Psychology	SS1 2022

Unit 1B Exam Research Summary

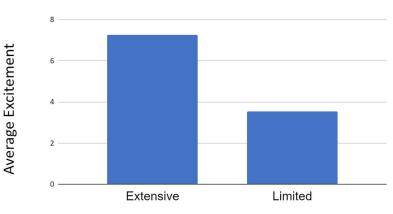
Please answer the following questions in the space provided. Only write on the lines. Adapted from: Iyengar, S. S., & Lepper, M. R. (2000). When choice is demotivating: Can one desire too much of a good thing? *Journal of Personality and Social Psychology, 79*(6), 995-1006.

Can you have too much of a good thing? Marketing analysts assume that the more choices they offer, the more likely customers will be able to find and buy just the right thing. They assume, for instance, that offering 50 styles of jeans instead of two increases the chances that shoppers will find a pair they really like. Researchers wanted to find out if the marketing analysts are right, that more choice is a good thing for sales.

It all began with jam. In 2000, psychologists Sheena Iyengar and Mark Lepper published a remarkable study. On two consecutive Saturdays, neither of which fell on a long holiday weekend, a tasting booth was set up inside a high-end grocery store for five hours during peak shopping hours. On one Saturday, shoppers saw a display table with 34 varieties of gourmet jam. On the other Saturday, shoppers saw a similar table, except that only 3 varieties of the jam were on display. The researchers decided which booth to set up on the first and second Saturday randomly by flipping a fair coin. Selection of the jam flavors to display was carefully considered; all jams were the same brand and the most common (e.g., strawberry) were not included.

Any person who sampled the spreads received a coupon for \$1 off of jam purchase. Those coupons had a code that was tracked at the register. When the coupon was scanned it prompted a question to appear on the checkout screen. Customers were asked "How excited are you to eat the jam you purchased?" Customers indicated their excitement from a scale from 0 (not at all excited) to 10(Extremely Excited) People who saw the large display were more excited about their jam than people who saw the small display. The amount of choices significantly affected the excitement

about jams, t(500) = 5.02, p = .01. Researchers found that participants who were exposed to three jam choices were less excited about their jam (M = 3.52, SD = 1.72) compared to those who were exposed to 34 jam choices (M = 7.25, SD = 0.56).



Amount of Choice

5 pts	Hypotheses 1. What is the null hypothesis?		
5 pts	2. Sketch the null hypothesis:	Average Excitement	
		Average	
5 pts	3. Write a directional research hypothesis.		Extensive Limited Choice Type
5 pts	4. Write a non-directional research hypothesis.		
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Predictor Variable

5 pts	5. Name the predictor / independent variable
10 pts	/ How did the recognition of the productor / independent
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)CategoricalContinuous
5 pts	8. How was the predictor / independent variable measured? (fill in the box) Observation Self-Report Physiological
	□ It was manipulated (under the experimenter's control)

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	11. The outcome / dependent variable is (fill in the box) Categorical Continuous
5 pts	 12. How was the outcome / dependent variable measured? (fill in the box) Observation Self-Report Physiological It was manipulated (under the experimenter's control)
	Another researcher wants to extend this finding using different methods to address a similar research question. Researchers followed the exact same procedures, except while they were at the sample table researchers counted how many jars customers added to their cart.
5 pts	 13. How was this new outcome/dependent variable measured? (fill in the box) Observation Self-Report Physiological It was manipulated (under the experimenter's control)

Summarize the findings (from original prompt)

5 pts	 14. Is this a value, causal, or associative claim? (fill in the box) Value Causal Associative
10 pts	15. How do you know?
10 pts	16. How do you know that this satisfies Mill's criteria of temporal precedence?
10 pts	17. Does this satisfy Mill's criteria of elimination of alternative explanations?
10 pts	18. Does this interpretation follow from this study: "We found that giving more jam choices was not related to excitement" Why or why not?
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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.	The	e finding that "the more classes a person takes, the more money they spend
		textbooks" illustrates_relationship.
		a positive
		a negative
		a curvilinear
		no relationship
	exc tha ser and	n experimenter wants to know if eating a big protein breakfast before an affects performance. He splits participants into an experimental group at eats a big protein breakfast and a control group. The protein group is wed bacon, sausage, and eggs. The control group is served cereal, yogurt, defruit. Because he has a lot of vegetarians in his study, he decides to put all in the control group. What is a possible problem with the experiment? The construct validity of the protein breakfast was poor. The study is correlational, preventing causal conclusions to be drawn. The groups did not start out completely equal: vegetarians might naturally
22.		perform differently from non-vegetarians on the exam. 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 (1-5)
23.	If yo	ou question the construct validity of a study, which of the following
	,	estions would you be asking?
		Were the variables measured accurately?
		How well do the results generalize to the overall population?
		Does the predictor variable cause changes in the outcome variable?
		Which statistic should be computed?
24.	Wh	at sort of evidence are testimonials from individuals?
		rational
		empirical
		scientific
		anecdotal

25. An important characteristic of science is that it is empirical. Which of these statements describes this characteristic?
□ Scientific inquiry has value independent of any economic value that may result
from the research All natural, social, and psychological phenomena are causally determined by
preceding events or natural laws
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
2 / All selectime knowledge is open to former resting 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 wants to know how much the cost of bread changed from 1980 to 2020. What type of claim will the researcher make?
□ Value claim
Association / correlation claim
□ Causal claim
28. How do you know?