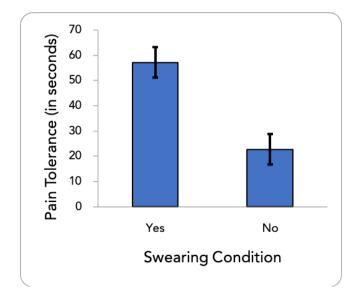
First Name:	Last Name:		
Student ID #:			
PSC 041	Research Methods in Psychology	WQ 2024	

Unit 4 Exam Version B Research Summary

Please answer the following questions in the space provided. Only write on the lines. Adapted from: Stephens, R., Atkins, J., & Kingston, A. (2009). Swearing as a response to pain. *Neuroreport*, 20, 1056-60.

Oh \$*%# that hurts! Do you swear when you stub your toe? Turns out this bad language could be good for you! Psychologists have found empirical evidence that swearing may increase pain tolerance. Sixty-seven undergraduate participants came into the laboratory and were asked to immerse their hand into a bucket of icy water. Researchers explained the whole task and told the participants they could pull their hand out of the water at any time. Icy water is painful but won't cause any actual damage in a few minutes. The researchers randomly assigned half of the participants to read a list of swear words while their hand was in the water and instructed the other half to recite the alphabet from memory. They measured how many seconds each participant kept his, her, or their hand in the icy water. Researchers compared the results from people who cursed to people who did not curse. The participants who recited curse words kept their hand in the icy water longer (M = 57.2, SD = 1.31) than those who recited the alphabet (M = 22.8, SD = 1.23). Researchers concluded that reading curse words significantly increased pain tolerance, t(66) = 2.218, p = 0.03.



Predictor Variable

Thinking about the Predictor / Independent Variable: <u>Swearing Condition</u>

Partial operational definition: Participants were instructed to swear or to recite the alphabet

3 pts	 The Predictor / Independent Variable is (fill in Categorical 	the box) Continuous
3 pts	2. How was the Predictor / Independent VariabObservationSelf-Report	ole measured? (fill in the box) Physiological It was manipulated
5 pts	3. Is this a causal or associative claim? (fill in the ☐ Associative	e box) □ Causal
5 pts	4. This variable is (fill in the box)□ between groups	□ within group
	Use this information only for the next two questions: Another researcher wants to extend this finding address the same research question. This resear say whatever they want while their hand is in the whether the participants said swear words or no	rcher instructs all of the participants to e water. The researcher codes
3 pts	5. How was this new Predictor / Independent Va ☐ Observation ☐ Self-Report	ariable measured? (fill in the box) Physiological It was manipulated
5 pts	6. Is this new claim a causal or associative claim Associative	n? (fill in the box) Causal

Outcome Variable

Thinking about the outcome / dependent variable: Pain tolerance

10 pts	7. How did the researchers operationally defir variable? Describe it using your own words. B and indicate how the codes will be interprete	e sure to include the levels or values
3 pts	8. The outcome / dependent variable is (fill in table Categorical	he box) Continuous
3 pts	9. How was the outcome / dependent variable Observation Self-Report	e measured? (fill in the box) Physiological It was manipulated
10 pt <mark>s</mark>	10. Evaluate the construct validity of the outco ProTips: Give an overall evaluation. Think abou the method-match to inform your decision. Use discuss this one variable.	t the face validity, the procedure, and
		Page 3 of 8

Evaluate Internal Validity and Research Design

10 pts	11. For this research summary, there is not a maturation effect because
10 pts	12. For this research summary, "reading" is a confound because
•	
-	
	Sampling
5 pts	13. This is a sample of human beings.
	□ probability □ non-probability
	Page 4 of 8

Summarize the findings

5 pts	 14. How did the researchers summarize th ☐ indicate strength and direction of the c ☐ compare group frequency ☐ compare group means 		
5 pts	15. The error bars overlap. Therefore between the variables? (fill in the box)□ do; is□ do; is not	e, there likely a real relationship do not; is do not; is not	
5 pts	16. The p value is Therefore, there between the variables? (fill in the box) ☐ greater than 0.05; is ☐ greater than 0.05; is not ☐ less than 0.05; is ☐ less than 0.05; is not	a statistically significant relationship □ greater than 0.5; is □ greater than 0.5; is not □ less than 0.5; is □ less than 0.5; is not	
	Evaluate Ext	ernal Validity	
10 pts	17. For this research, evaluate one aspect of external validity . You may include evidence for either a strength or a weakness. (e.g., is this authentic? does this generalize to other situations? does this generalize to other individuals?)		

	Another researcher attempted to replicate this study in a different culture. They carefully replicated every step of the procedure. They did not find the same results. Participants in this new study demonstrated the same amount of pain tolerance regardless of what they were asked to say. In this different culture, tolerating pain is highly socially valued.		
5 pts	18. This is a failure to ☐ generalize ☐ replicate		
5 pts	19. This new finding brings into doubt the internal validity external validity		
5 pts	20. This new finding □ can be explained in a way that coexists with the original finding. □ indicates that one of the findings is likely to be invalid.		
Multiple Choice. Select the <u>single best answer</u> . Indicate your choice by filling in the box to the left of your selection. Do not put stray marks in the other boxes. If you need to change your answer and are unable to erase fully, clearly indicate your final choice (e.g., draw an arrow or circle it). 2.5 points each.			
2	1. Random assignment impacts validity. Random sampling impacts validity internal; external		
2	2. A researcher is using deception to ensure that participants respond naturally to a stimuli. They are concerned that a participant may share critical information about a study's purpose learned during a debriefing with other potential participants, and that this disclosure could bias their responding. To avoid this potential bias, could the researcher decide not to include a debriefing? Yes No		
2	23.To examine interactions in a public park, a researcher observes people as they spend time at parks in a local town. Should this researcher obtain informed consent? □ Yes □ No		

	·	are followed by the APA are respect for
-	sons, beneficence, responsibility, ir /hich of the following is included in	- · · · · · · · · · · · · · · · · · · ·
		tary and participants can quit at any time
	Participants have an opportunit	y to understand the research and make an
_	informed decision about partici	
	Individual performance in a rese	
	Any risk from the research to paThe benefits of the research sho	uld apply broadly and not only to a particular
	group	old apply broadly and not only to a particular
	Psychologists build trust and cor	nduct their business professionally
	☐ Research is conducted accurat	
25. W	/hich of the following is included in	the definition of justice?
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	· •	y to understand the research and make an
	informed decision about partici	
	Individual performance in a rese	
	Any risk from the research to pa	
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Г	group 3 Psychologists build trust and cor	aduct their business professionally
	Research is conducted accurat	· · · · · · · · · · · · · · · · · · ·
26 Sr	pending on Social Security Medica	are, and Medicaid make up the largest portion
	f the U.S. federal budget.	are, and medicala make up the largest portion
	nis statement is and therefore	belong in a scientific report
	opinion, could	factual, could
	opinion, could not	factual, could not
27. W	hich of the following behaviors is/	are (an) example(s) of plagiarism?
		pied without using quotation marks and a
	reference citation	
_	Representing another's work as	•
		pied and substituting a few words with their
Г	synonyms without citing the sou All of these	rce
		I then we summarize it by calculating mean
	nd standard deviation.	i men we sommalize it by calculating mean
	☐ categorically	□ by observation
	ontinuously	□ by survey
29.In	which section of a research articl	e would a reader find a description of what was
	one in the past and why the prese	
_	Introduction	☐ Results
L		Discussion

Sai na an Thi		nrolled undergraduate Put all the papers into est described as:	C Davis. e students at UC Davis. Print eac a very large box. Shake the box Systematic Stratified Random Simple Random Judgmental	
31.Wh	nich one of the following staresearch report? Past research shows mer For men, the average tin average was 7.4 minutes While the three men and measured time spent tall Contrary to popular belief	ratements would be on a generally talk more to the talking was 10.7 miles I three women discuss king by starting and st ef, in groups of mixed	ppropriate for the results section han women nutes while for women the ted the issue, the experimenter	٦
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