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

Unit 3 Exam Version C Research Summary

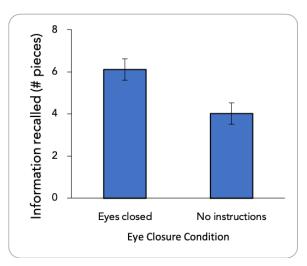
For multiple choice questions, fill in the box to indicate your selection. Do not make stray marks in other boxes. For short answer questions, try to write on the lines and stay in the space provided.

Adapted from: Vredeveldt, A., Hitch, G. J., & Baddeley, A. D. (2011). Eyeclosure helps memory by reducing cognitive load and enhancing visualization. *Memory & Cognition*, 39(7), 1253-1263.

Thanks to the foibles of human memory, eyewitness evidence is notoriously unreliable. One attempt to help improve recall was to interview the witness in a situation that matches the original crime context as closely as possible. Now researchers have tested a simpler technique for improving eyewitness memory - getting them to close their eyes.

Ninety-six undergrads signed up for what they thought was a study into "social interactions". A research assistant took participants in groups of four for a walk around a New York city block with a clipboard taking note of people they saw. The study took place between 9am-12pm and 6-8pm. While walking, two of the "participants" started arguing and insulting each other. These people were actually confederates. That is, they are secretly part of the research team but were acting as if they were participants. The altercation ended with one of the confederates knocking the other's clipboard to the ground and storming off. The researchers ensured each of the staged arguments was caught on film so that the participants' answers could be checked for accuracy.

After they had witnessed the public spat, the two actual participants were led away to another street location that closely resembled the scene of the incident. During the five-minute walk, the research assistant engaged the two participants in conversation to ensure that the participants did not replay the event in their head. The participants were not yet aware that they would be asked to recall the incident or that the incident had been staged. When they arrived, they were asked to recall everything they could about the event. In each walking group, one participant was randomly assigned to be instructed to close their eyes during the recall (and were reminded appropriately if they opened them



at any point during the task); the other was not given any instructions about their eyes.

Overall, participants who closed their eyes recalled more useful (and verified) information (M = 6.11, SD = 2.12) about the argument than those in the eye open condition (M = 4.02, SD = 1.11), t(84) = 7.32, p = 0.01. There were, of course, many useful pieces of information that could have been recalled. Fifteen people dropped out of the eye-closed condition, stating that they did not feel comfortable standing on a street with their eyes closed. No one dropped out of the eyes-open condition.

Predictor Variable

	Considering the predictor / independent variable: Eye-Closure Condition			
5 pts	1. How did the researchers operationally define the predictor / independent variable? Describe it using your own words. Be sure to include the levels or value and indicate how the codes will be interpreted.			
5 pts	2. The Predictor / Independent Variable is (fill in the box) Categorical Continuous			
5 pts	3. How was the Predictor / Independent Variable measured? (fill in the box)			
5 pts	4. Is this a causal or associative claim? (fill in the box)			
10 pts	5. Evaluate the construct validity of the predictor / independent variable. ProTips: Give an overall evaluation. Think about the face validity, the procedure, and the method-match to inform your decision. Use specific vocabulary. Be sure to only discuss this one variable.	k		

Outcome Variable

	Considering the outcome / dependent variable: Memory Accuracy			
	Partial operational definition: Total number (0-#)	of accurate pieces of info recalled		
5 pts	1	e box) Continuous		
5 pts	□ Observation	measured? (fill in the box) Physiological It was manipulated		
	Use this information only for the next two questions: Another researcher wants to extend this finding using research question. This researcher asked participants remembered the scene on a scale from 1 (I remember everything). The rest of the procedure was exactly the	to rate how well they felt that they er nothing) to 10 (I remember		
5 pts	□ Observation	able measured? (fill in the box) Physiological It was manipulated		
10 pts	9. Does the new outcome variable (memory ratings) validity than the original outcome (memory accuracy sentences.			

Evaluate Internal Validity

In the next two questions, describe how a threat to internal validity has been solved or why an effect might influence one group differently than the other. You may include evidence for either strengths or weaknesses.

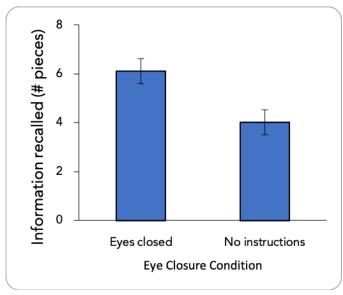
ProTip: Use specific vocabulary and include details from the study. Have they started with equivalent groups? Have they ruled out everything else? Think about history, testing, mortality, maturation, and selection effects.

ots 10. F	or this research	summary , eva	luate one asp	ect of intern	al validity.	
†						
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ts 11. F	or this research	n summary , eva	luate one mo	re aspect of	internal validity	
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					Page 4 of 8	

ō pts	12. For this research summary, 'time of day'' is not a confound because				
Б					
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S	13. To establish reliability, researcher should have had multiple research assistants check the accuracy of memory information in the video. □ Test-retest □ Interrater				
	□ Split half □ Counterbalancing □ Alternate forms □ Manipulation check				
S	14. This research design was (fill in the box) between groups within group				
S	15. Explain how you know whether it was between groups or within group. ProTips: Use specific vocabulary and include specific details from this study. Indicate how many levels of the predictor variable each participant experience				

Summarize the findings

- 5 pts 16. The error bars for the no instruction condition and eye-closure condition overlap. Therefore, there likely ___ a real relationship between the variables for this condition?
 - □ do; is
 - □ do; is not
 - □ do not; is
 - do not; is not



- 17. The p value is _____. Therefore, there ___ a statistically significant relationship and 5 pts eyes-closed vs no instruction effected memory accuracy.
 - □ greater than 0.05; is
 - □ greater than 0.05; is not
 - \Box less than 0.05: is
 - □ less than 0.05; is not

- □ greater than 0.5; is
- □ greater than 0.5; is not
- \Box less than 0.5: is
- □ less than 0.5; is not
- 5 pts 18. Does this interpretation follow from this study: "Closing eyes during recall increased recall." Why or why not?

Multiple Choice . Select the <u>single best answer</u> . Indicate your choice by filling in the box to the left of your selection. Avoid making stray marks in other boxes. 2 points each.				
 19. In experimental research, wethe dependent variable. □ manipulate; control □ manipulate; measure □ measure; manipulate 	ne independent variable and the control; measure manipulate; manipulate measure; measure			
could randomly assign half the drivers to sunglasses condition. have all drivers first drive without so	a sunglasses condition and half to a no- unglasses and then with sunglasses.			
Use this information for the following three of developmental psychology lab observe proafter seeing an adult modeling helping behavior.				
21. This is a(n) design. matched pairs block design within group post-test only	Latin squareconcurrent measuresbetween groupsfactorial			
22. If neither the toddlers nor the research of purpose of the study or the type of beha counterbalanced design.self-report.	·			
this study. Let's fix that. Recruit older children to be partic Randomly assign the toddlers to to watches the helping behavior first behavior second. Ask the toddler's parents to select Gather data from all of the toddle	wo order conditions. One condition , the other condition watches the helping			

•	24. Why is random assignment important in experimental research?It ensures that the confounding variables are assigned to the experimenta group.				
	It ensures that the confounding variables are It ensures that the measured variable is assig It ensures that the manipulated variable is as It ensures that the experimental and control It eliminates internal validity	ne ssig	d to the correct group. ned to the correct group.		
affects per 10am. He r group. On The experir served cer a lot of veg	menter wants to know if eating a big protein be rformance. He recruits participants from a charandomly assigns participants into an experimal the day of their first midterm, all of the partice mental group is served bacon, sausage, and real, toast, and fruit. As he is handing out the getarians in his study. The vegetarians in the eacon or sausage. Help him think through his of	em ipa eg foo exp	istry class that meets at tal group and a control nts arrive at the lab at 8am. gs. The control group is d, he discovers that he has erimental group refuse to		
25. He could ask the vegetarians to return the following week when he has had time to plan a high protein plant-based breakfast. He will arrange for their exam to be postponed for one week. What threat to internal validity would this introduce?					
	□ Selection		Testing		
	□ History		Attrition		
	☐ Maturation				
26. He could ask the vegetarians to wait for an hour while he prepares a high protein plant-based breakfast. What threat to internal validity would this introduce?					
	□ Selection		Testing		
	□ History		Attrition		
	☐ Maturation				
	uld move the vegetarians into the control groast. What threat to internal validity would this				
	□ Selection		Testing		
	☐ History		Attrition		
28. He could remove the vegetarians from the study. What threat to internal validity would this introduce?					
	□ Selection		Testing		
	□ History		Attrition		
	☐ Maturation				