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

## Unit 2 Exam Version C Research Summary

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

**Adapted from:** Leyva, R. (2018). Experimental insights into the socio-cognitive effects of viewing materialistic media messages on welfare support, *Media Psychology* 

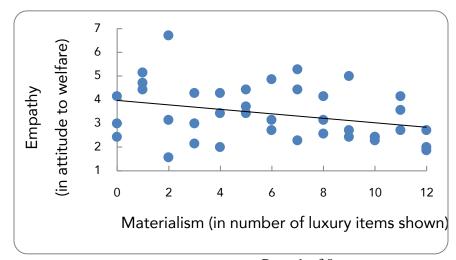
According to a new study, people who are exposed to images that glamorize wealth, fame and luxury could be less empathetic to social welfare programs that help low-income people or people experiencing poverty. Welfare programs include money given by the government to ensure that people can meet their basic needs such as food and shelter.

Researchers recruited 487 adults aged 18-49 years old to participate in this research. The participants were recruited on a website and were from a wide variety of locations and backgrounds (gender, ethnicity, SES, education, etc.). The participants were recruited in the same hour and all completed the experiment within 25 minutes. All participants were shown a series of twelve images for 5 seconds each and then asked to indicate their attitude towards welfare. Some of the images were of luxury items and some were of neutral items. Each participant was randomly assigned to see between zero and twelve luxury images with the other images being neutral. Therefore, for some participants, all twelve images were advertisements for luxury products and tabloid photos of famous celebrities showing off high-end purses, vacation rental mansions, and jewelry; for some participants, six of the items were luxury; for other participants, all twelve images were neutral stimuli such as generic advertisements for food, natural scenes, or office supplies.

The participants then completed a measure of empathy and attitude toward welfare where they rated the extent to which they agreed with 20 anti-welfare statements like: "Providing welfare makes people lazy", "Welfare should be eliminated", "The majority of people in poverty didn't work hard enough." Participants responded using a 7-point Likert-type scale (1 = Strongly Agree, 7 = Strongly Disagree).

Each participant's responses were averaged to create an index of empathy with high numbers indicating more support of welfare.

Results indicated that the more materialistic pictures participants were exposed to, the less support they expressed for welfare programs r(485) = -0.21, p = 0.001.



## **Predictor Variable**

	Considering the predictor / independent variable, Materialism Exposure
10 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 values and indicate how the codes will be interpreted.
5 pts	<ul> <li>2. The predictor / independent variable is (fill in the box)</li> <li>Categorical</li> <li>Continuous</li> </ul>
5 pts	<ul> <li>3. 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>
5 pts	<ul> <li>4. Is this a causal or associative claim? (fill in the box)</li> <li>Causal</li> <li>Associative</li> </ul>
20 pt <mark>s</mark>	5. Evaluate the <b>construct validity</b> 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.

## Outcome Variable

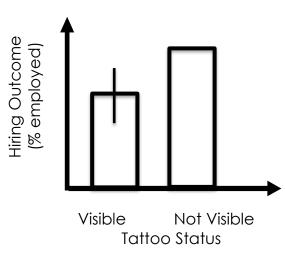
	Considering the outcome / dependent variable, Empathy Partial operational definition: Responses on a Likert-type scale with 20 items.
5 pts	6. The outcome / dependent variable is (fill in the box)   Categorical  Continuous
5 pts	<ul> <li>7. How was the outcome / dependent variable measured? (fill in the box)</li> <li>□ Observation</li> <li>□ Self-Report</li> <li>□ Physiological</li> <li>□ It was manipulated (under the experimenter's control)</li> </ul>
20 pts	8. Threat to Construct validity: This variable is vulnerable to a response set. Describe why it is vulnerable to this effect. Describe how a researcher could reduce the vulnerability to this threat.

Hypothesis	<b>A</b>
9. Sketch the null hypothesis: (include error bars or the line of best fit)	Empathy
Summarize the finding	gs
<ul> <li>10. What sort of relationship did the research revea</li> <li>No relationship</li> <li>Strong negative linear relationship</li> <li>Moderate negative linear relationship</li> <li>Weak negative linear relationship</li> <li>Strong positive linear relationship</li> <li>Moderate positive linear relationship</li> <li>Moderate positive linear relationship</li> <li>Weak positive linear relationship</li> </ul>	nl? Materialism Exposure
☐ greater than 0.5; is not ☐ greater than 0.5; is ☐ ☐	greater than 0.05; is greater than 0.05; is not less than 0.05; is not less than 0.05; is not
12. Does this interpretation follow from this study: "in materialistic images caused an increase in empath not?	
	9. Sketch the null hypothesis:     (include error bars or the line of best fit)  Summarize the finding  10. What sort of relationship did the research reveal No relationship Strong negative linear relationship Moderate negative linear relationship Weak negative linear relationship Strong positive linear relationship Moderate positive linear relationship Moderate positive linear relationship Weak positive linear relationship  11. The p value is Therefore, there a static between the variables. (fill in the box) greater than 0.5; is greater than 0.5; is less than 0.5; is less than 0.5; is not less than 0.5; is

## 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. 2.5 points each.

13. Draw the remaining error bar on this graph such that the graph supports this claim: Having visible tattoos is not related to getting a job

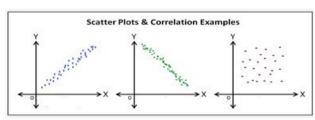


- 14. A correlation coefficient (r) less than -.1 means that \_\_\_\_\_.
  - ☐ as the value of one variable goes up, the other goes down
  - as the value of one variable goes up, the other also goes up
- 15. Which of the following tells us the strength of a correlation coefficient?
  - ☐ the sign of the r-value
  - ☐ the absolute value of the r-value
- 16. Which of the following values indicates a strong correlation coefficient?
  - □ +/- 1.00 to 1.50
  - □ +/- .50 to 1.00
  - □ +/- .30 to .50
  - □ +/-.10 to .30
  - $\Box$  0
- 17. Which of the graphs below show a strong negative correlation coefficient?

 $\Box$  A

 $\sqcap$  B

□С



<ul> <li>18. The finding that "shorter people have more confidence than taller people" illustrates relationship.</li> <li>a positive linear</li> <li>a negative linear</li> <li>a curvilinear</li> <li>no relationship</li> </ul>	
<ul> <li>19. Which of the following statements is an example of circular reasoning:</li> <li>"Time was measured accurately because the two conditions took different lengths of time"</li> <li>"Time was measured accurately because we used a stop watch"</li> </ul>	ent
20. You are developing a new test of Attention Span for goldfish. You give the currently accepted test to a goldfish, and it scores 9 seconds (average). You then give your new test to the same goldfish three times. Here are the results: Trial one: 3 seconds Trial two: 30 seconds Trial three: 10 seconds	
Your new Working Memory test is:  Reliable but not valid Neither valid nor reliable Both valid and reliable Valid but not reliable	
<ul> <li>21. Which of the following would be the best way to measure the physiological sanger?</li> <li>Self-reports by individuals about their level of anger</li> <li>Measures of brain patterns, blood pressure, and heart rate as correlates anger</li> <li>Observing people for signs of anger</li> <li>Newspaper articles about the level of anger among the populace</li> </ul>	
<ul> <li>22. A researcher included reverse-worded items in a self-report measure. How we she use reverse coding?</li> <li>She would code all 'strongly agree' responses as 7 points and all 'strongly disagree' responses as 1 point</li> <li>She would code all 'strongly agree' responses as 1 point and all 'strongly disagree' responses as 7 point</li> <li>She would code all 'No' responses as 0 points and all 'Yes' responses as 1 she would code all 'No' responses as 1 point and all 'Yes' responses as 0 She would need to flip the coding scale so the same type of responses we coded the same way.</li> </ul>	ly / 1 point. ) points.

<ul> <li>23. Which of the following is an example of a directional research hypothesis?</li> <li>Will participants exposed to more materialistic images express less empathy?</li> <li>Participants exposed to more materialistic images will express less empathy.</li> <li>The number of materialistic images seen will not influence empathy.</li> </ul>	
24. Which of the following is an example of Faking Good?  pretending to not be in pain when you are in a lot of pain  pretending to be in a lot of pain when you are not feeling much pain  pretending to really like milk when you are talking with a dairy farmer  lying about who you will vote for to a pollster	
25. At a swim meet, three judges score a diver a 5, 5, and 4 out of a possible 10 point. This is an example of high  internal validity external validity split-half reliability inter-rater reliability	S.
26. The validity of measure has to do with the  Consistency in producing the same results  The accuracy of the measurements for the construct	
27. Participants who are aware they are being observed may change the way they act. This is called:  ullidity.  reactivity.  reliability. sampling bias.	
28. Surveys are most effective at gatherings information about  attitudes and intentions behaviors causal relationships all of the above	
29. Jack has a difficult time answering the question "Are you in favor of increasing tuition in order to increase the number of classes and parking spaces offered?" because it is a question.  □ loaded □ double-barreled □ simplistic □ yea-saying and nay-saying	

	estion the construct validity of a study, which of the following questions bube asking?
•	How were the participants recruited?
	Which statistic should be computed?
	Were the variables measured accurately?
	Does the predictor variable cause changes in the outcome variable?
31.A negati	ve correlation coefficient tells us that
	if we have a high score on one variable, we have a low score on the second variable.
	if we have a low score on one variable, we also have a low score on the second variable.
П	the relationship between our two variables is very weak.
	there is no relationship between variables.
32.If it was a	discovered that drinking fine wine was associated with good health, one
	conclude that people who can afford to drink wine can also afford good health care
	conclude that only healthy people drink wine
	predict that people who drink fine wine will tend to be healthier
	conclude that some chemical in the wine caused improved bodily functions