2000 AP® PSYCHOLOGY FREE-RESPONSE QUESTIONS

- 2. The police chief of New City states publicly that she sees a direct relationship between teenage arrests in New City for violent crimes and the popularity among New City teens of especially violent television shows.
 - A. Design a correlational study to research this claimed relationship, being sure to address how each of the following design elements would apply to your study.
 - operational definition of variables
 - selection of participants
 - generalizability
 - two ethical considerations
 - B. The police chief concludes that watching violent television shows leads to teens' committing violent crimes in New City. Do you support her conclusion? Explain your response.

END OF EXAMINATION

2000 A. P. Psychology Exam: Free Response Question 2

The police chief of New City states publicly that she sees a direct relationship between teenage arrests in New City for violent crimes and the popularity among New City teens of especially violent television shows.

- A. Design a correlational study to research this claimed relationship, being sure to address how each of the following design elements would apply to your study.
 - -- operational definition of variables
 - -- selection of participants
 - -- generalizability
 - -- two ethical considerations
- B. The police chief concludes that watching violent television shows leads to teens' committing violent crimes in New City. Do you support her conclusion? Explain your response.

All points must be earned *in context*. This means the student must make it clear he or she is responding to a particular part of the essay. The best way for a student to do this is to use language from the question (e.g., "variables" implies discussion of point 2, "ethics" implies discussion of points 5 and 6, etc.). A student may also establish context by answering the question in order, or if the transitions between points can be inferred by the reader.

Point 1: Correlational Design

Award this point if the student proposes the design of any correlational study (<u>not</u> an experiment). Examples are surveys, questionnaires, interviews, case studies, and so on. The student may supply this information at any point in the essay.

Do not score this point if the student proposes an experiment by:

- a) explaining the design of an experiment
- b) describing the creation of groups
- c) calling for the random assignment of participants to conditions
- d) using other language that implies an experimental rather than correlational design

If the student proposes an experiment instead of a correlational design, the remaining points <u>may</u> still be awarded.

Point 2: Operational Definition of Variables. A student may earn this point two ways:

<u>Method A.</u> Award this point if the student identifies <u>two</u> or more specific variables (not groups) appropriate for the study he or she designs.

The two most common variables will be television violence (typically the predictor or independent variable) and violent crime (typically the outcome or dependent variable). Do not count the outcome variable unless it relates specifically to violent crime; it is not sufficient to express it in vague terms like "the actions displayed." One (and only one) identified variable may be a specific extraneous variable that might potentially confound the study, such as child abuse or poverty. For one of the variables, the student may define teens.

Students do not need to identify variables as independent, predictor, dependent, or outcome. If the student does use such labels in a correlational design, it does not matter which one is applied to television violence and which one is applied to violent crime. However, if the student proposes an experimental design and misidentifies television violence as the dependent variable or violent crime as the independent variable, do not award the point.

<u>Method B.</u> This point should also be awarded if the student provides a general explanation of the importance of operational definitions even though specific variables like violent television or crime are not described. For example, the student might explain that operational definitions allow for careful measurement or increased reliability.

Point 3: Selection of Participants

Award this point if the student proposes any procedure designed to increase the randomness or representativeness of the selected participants. The student may specify random sampling, random selection, representative sampling, stratified sampling, placing newspaper ads, or similar methods. A student may also earn this point by proposing that the entire teenage population of New City be selected. Do not award the point if the student simply proposes "seeking volunteers" unless there is an implication that this will somehow increase the representativeness of the sample.

The student may also specify any procedure that would control for a demographic variable (e.g., gender, socioeconomic status, or neighborhood) as long as the specific variable is mentioned and it is not a variable mentioned in the question (TV watching or criminal activity). It is not sufficient to make a vague statement like "different kinds of people must be included."

This point may be awarded if the student has presented an experimental design, but not by describing random assignment to groups. The student must explain a procedure that allows for the random selection of participants. If a student proposes an experiment and describes both random sampling and random assignment, award the point. Students frequently confuse the terms "random sampling" and "random assignment," but this point should be awarded or not awarded based on the procedure described rather than the term used.

Point 4: Generalizability

Award this point if the student makes an appropriate statement about how the results of this study <u>can</u> or <u>cannot</u> be applied to a population larger than or different from the participant sample (e.g., all New City 7th graders, all New City teenagers, teenagers in similar cities, etc.). In order to make this determination, it may be necessary to consider the sampling procedure described for point 3. Do not award this point if the generalizability statement contradicts the sampling statement.

Note that this point relates to the generalizability of <u>results</u>, not other kinds of generalization (for example, of violent behaviors).

Points 5 and 6: Two Ethical Considerations

Award one point each for two ethical considerations. These may include:

- a) Any aspect of informed consent. The participants' permission, or their parent's (or guardian's) permission, must be obtained before the study. The participants must receive general information about the nature of the study before it begins. Participation must be voluntary.
- b) Participants have a right to withdraw from participation or have data about them withdrawn at any time.
- c) Information about individual participants must be confidential.
- d) Participants must be debriefed.
- e) An analysis of whether the potential benefits of the research outweigh the potential risks. This includes considering, when designing the study, the potential perpetuation of stereotypes related to teens or ethnic groups.
- f) Participants have a right not to be harmed. This includes protection from negative states such as "being upset" as long as the condition extends beyond the time frame of the study. Award a point for statements like "this study is unethical because a participant exposed to violent television shows might experience bad dreams" or "might continue to be upset by the experience," but don't award a point for statements like "this study is unethical because it's upsetting to watch violent television shows." This point can only be awarded for students who propose an experimental design.
- g) Ethical concerns that exist because the study might cause participants to be violent. This point can <u>only</u> be awarded for students who propose an <u>experimental</u> design.

Point 7: Support for Police Chief's Conclusion

Because of the wording of the question, this part of the answer does not have to be linked with the student's response to Part A. The student may receive credit for either supporting or not supporting the police chief's conclusion.

When the student does not support the police chief's conclusion:

Award the point if the student indicates that the results of correlational studies may not be used for cause and effect conclusions. The student may also do this by mentioning that variables not controlled in a correlational study (such as family environment or peer relationships) could possibly account for different levels of violent crime. These other variables do not need to be specified.

When the student supports the police chief's conclusion:

There are two methods whereby the student may earn the point.

Method A. Award the point if the student argues that the police chief's conclusion is supported by research indicating that violent media can indeed lead to aggressive behavior. This requires the student to both indicate the research basis <u>and</u> use terminology specified below. The research basis may be established through the use of phrases like "Bandura showed," "there is evidence that," or "based on research." The terminology must include "observational learning," "imitation," or "modeling." Students may also use a discussion of desensitization if it is explained. Do not accept statements like "there is evidence teenagers copy what they see."

Method B. Award the point if the student described an experiment and indicates that the results of the experiment support such a cause and effect conclusion.

Write in the box the number of the question you are answering on this page as it is designated in the examination.

AP	Psyc	hology	
	2		BB)

In designing a study to research the claimed relationship
between a techage arrests and popularity among New City
terns of violent television shows, one would first need to
operationally define the variables involved. The first variable
is defi "violent crime" which can be defined as crime
which involves harm inflicted on someone else. The other
variable is "violent shows", which can be defined as
shows which depict violente in an comical manner or
as socially acceptable. To conduct the survey, a random,
representative scumple would of trens who are/have been
ancested would need to be found. Next, a survey would
be given to the kene about their show preferences
and the amount of time spent watching these shows.
Because the sample is random and representative.
it can be generalized to represent the population. Two
enical concerns that would need to be addressed are
the right to privary of the trens, and the need for their
consent to be apart of the survey/study.
I would not support the police cheifs' conclusion
that watching violent television shows leads teens to commit
violent crimes in New City because even though there may
be a correlation in the data correlation does not
necessarily imply causation. There may be many other factors
in the kens lives or upbringing that affects their actions.

AP Psychology Write in the box the number of the question you are answering on this page as it is designated in the examination.

AP Bychology Write in the box the number of the question you are answering on this page as it is designated in the examination.

Write in the box the number of the question you are answering on this page as it is designated in the examination.

UPON COMMENCING THIS STUDY I WOULD HYPOTHESIS THAT WATTHING
VIOLENT T.V. SHOWS INCOGNES THE LIKELSHOOD THAT ONE WILL PREFORM
A VIOLENT ACT. I WOULD THEN HAVE TO TAKE INTO CONSIDERATION ANY
OUTSIDE YADIABLES, SUCH AS : WILD THE PEOPLE HAVE ADDING WITH, WHAT
DO THEY DO IN TUBE FREE TIME, HOW MULLI T.V. DO THEY ACTUALLY WATCH.
ARE THEY RELIGIOUS OF THEY ATTEND SCHOOL / HAVE A JOB , I OTHER MATTER
INHICH MIGHT IMPACT ON MY STUDIO. I WOULD THEN MAKE UP A
QUESTIONAIRE ASKING SULLI QUESTIONS, & OTHERS LIKE : WHAT VIOLET
PROGRAMMING DO SOU CHATCH, DID SOUR PRIESTS PHYSICALLY PUNISH YOU,
WHAT IS YOUR FOUNICITY & HOW MUCH AN YOUR IS YOUR ANNALE
HOUSEHOLD GUDGET. I WOULD THEN EXPECT THENS FROM THE COMMUNICU
ENSURING I GET SOME FROM EVERY CLASS, PAGE, & SOME WHO ARE
MONIN TO BE INVOLVED WITH THE WOLF OUTS, I SOME WHO LEE KNOWN
TO BE OUTSTANDING CITIZENS OF THOSE PARTICIPANTS, EACH BLOWN
GIVING OUT THE QUESTIONAPPE ENGURE THAT THE PUBSITURE ARE SPECIFE
FLYOUGH TO MOT HAVE THE OF RESULTS OVER GENERALIPED. I WITH
ALSO MAKE SURE THAT UPON PUBLISHING MY RESULTS, I SO
AUT SPECIFICALLY NEATTON AND OF THE PARTICIPANTS OF E THEIR INFORMATION
Eg. JOHN Smins is CAUCAISIAN WITH HOUSING THEORE OF \$1,000,000,000. I
ALCO HAVE TO BE CAREFUL NOT TO PENPOINT THE CAUSE AS
IT COULD HAVE DATAGING EFFECTS. Ey. AFRICAL AMPRICALS MAKE UP
72% BE AS PEOPLE WHO COMMIT VIOLENT ACTS TUS COND
LAUGE SAME MASOL RACIAL WARS.

Write in the box the number of the question you are answering on this page as it is designated in the examination.

AP Psychology	
2.B	(HH)
	Page 2

	1			**************************************	''' 						-
-		MOUL	0	NOT_	SUM	ORT.	TUE	- POLICE	CHIE	es co	שלגרואל ושין
AS C	orrel	4) YOU		SN T	/√	≓۵۸ن	/Al)<	ATLANT.	110010	A	A
TWAD 6	<u> </u>	5 AL	乏)	OTHER	İΑ	JF/ Lie	.VEC	1 11 34 - 11	P411.5		.44.
	$\gamma = \gamma$	UE C	<u> </u>	<u>TWE</u>	<u>y. </u>	100	Example	TUA	Track.	A	Jan.
LIAD A	4 Uic	CENT	ب ب	PENACIA.	4	OR	MAH	DE LE	1 - 4-	7,000	PME
A QA	<u>م</u>	· Cours			7				<u> </u>	MPLUE	(C) 87
	·				······································			÷	····	· · · · · · · · · · · · · · · · · · ·	
_									~ ``` ^****	M ater	
					·	···········					
			· · · · · · · · · · · · · · · · · · ·		·	·	· · · · · · · · · · · · · · · · · · ·		COMMENT OF PRINCES		
-		*****	· · · · · · · · · · · · · · · · · · ·				·	- The state of the	· · · · · · · · · · · · · · · · · · ·		
			had page 30					·			
	······································	······································		***************************************							.
						······································					
					· · · · · · · · · · · · · · · · · · ·						
		Man	···	1 4	-						***************************************
		***************************************	······································	*****							
						**********	***************************************		···	A	
											
					*******			- Comme			
	***************************************				· · · · · · · · · · · · · · · · · · ·	····		<u></u>			7.5 W/W
		***************************************		·			· · · · · · · · · · · · · · · · · · ·		·	with the second second	
			•				·		····	***************************************	
····			····	· · · · · · · · · · · · · · · · · · ·		***************************************					
	***************************************		***************************************			· **********				·	
		*									
	· · · · · · · · · · · · · · · · · · ·	······································						No. america			
		· · · · · · · · · · · · · · · · · · ·			···	····				10000000000000000000000000000000	
	· · · · · · · · · · · · · · · · · · ·	The same of the sa			//				, *************************************		
	·		·					777777		· · · · · · · · · · · · · · · · · · ·	
								and of France 4			