### 2008 AP® PSYCHOLOGY FREE-RESPONSE QUESTIONS

### Abstract

- 2. We conducted a variation of Asch's (1951) conformity study in which participants made judgments about the length of lines. We randomly assigned participants to one of two conditions and told them that the study involved perceptual abilities. In the first condition, participants estimated the length of lines after hearing five people pretending to be participants (confederates) give inaccurate estimates. In the second condition, participants estimated the length of lines without hearing estimates of confederates. As we expected, participants in the first condition were less accurate in their estimates of line length, demonstrating the tendency to conform to majority influence.
  - A) How would each element below be related to the specific content of the experiment reported in the abstract?
    - Control group
    - Deception
    - Operational definition of the dependent variable
    - Hypothesis
    - Debriefing
  - B) How might participants' estimates of line length in the study be related to the following?
    - · Cognitive dissonance
    - · Maslow's hierarchy of needs

STOP

**END OF EXAM** 

### Question 2

#### Abstract

We conducted a variation of Asch's (1951) conformity study in which participants made judgments about the length of lines. We randomly assigned participants to one of two conditions and told them that the study involved perceptual abilities. In the first condition, participants estimated the length of lines after hearing five people pretending to be participants (confederates) give inaccurate estimates. In the second condition, participants estimated the length of lines without hearing estimates of confederates. As we expected, participants in the first condition were less accurate in their estimates of line length, demonstrating the tendency to conform to majority influence.

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  - Cognitive dissonance
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## **Scoring Criteria**

### General Considerations

- 1. Answers must be presented in sentences, and sentences must be cogent enough for the student's meaning to be apparent. Spelling and grammatical mistakes do not reduce a student's score, but spelling must be close enough so that the reader is convinced of the word intended.
- 2. Within a point, students are not penalized for misinformation unless it *directly contradicts* correct information that would otherwise have scored a point.
- 3. Students can only score points if information is presented in *context*. This means that they must clearly convey which part of the question is being answered before a point may be scored. For example, if a student correctly explains that participants should be informed afterward that the experiment was really about conformity but does not identify this as debriefing, the point is not earned. In some cases, it is possible to infer context from the structure of the essay.
- 4. Throughout the essay, definitions alone are not sufficient to score points. Every point requires students to relate their answers to information in the abstract.

## Question 2 (continued)

## Part A: Research Elements (Points 1-5)

To score any point in part A, students must relate their answers to specific content from the experiment.

## Point 1: Control group

To score this point, students must establish that the control group

- a. consists of participants who did not hear inaccurate estimates or
- b. is the second condition (accept "group B") or
- c. is the group without confederates

### Point 2: Deception

To score this point, students must establish that deception occurs

- a. because the participants were not told the experiment was about conformity or
- b. because the participants were told the experiment was about perceptual abilities (or line length) or
- c. when inaccurate information is given about the length of the lines or
- d. because of the use of confederates

### Note

<u>Do not score</u>: Statements such as "The experimenter lied," because there is no specific information from the experiment.

## Point 3: Operational definition of the dependent variable

To score this point, students must describe a measurement of line length (accuracy) or how many participants agreed with confederates.

### Notes

- a. Good answer: "The participants' estimates of the lengths of lines."
- b. Acceptable answer: "The participants' answers."
- c. <u>Do not score</u>: "The participants' reactions," because the word "reaction" is too broad.
- d. <u>Do not score</u>: "The participants' tendency to conform," because there is no sense of an *operational* definition.
- e. <u>Score</u> the point if the student discusses the measurement only with regard to one group ("the answers of the experimental group").

## Question 2 (continued)

## Point 4: Hypothesis

To score this point, students must present the hypothesis—an expectation about the relationship between variables—in either general terms ("People have a tendency to conform in groups") or specific terms ("The first condition will have more inaccurate estimates of line length than the second condition").

#### Note

## Do not score the point if

- a. the student phrases the hypothesis in the past tense, because this represents the results and not the hypothesis ("The hypothesis is that people in the first condition were less accurate").
   Accept the present tense, future tense, or subjunctive mood (indicated by the word "would").
   The student may begin by saying, "The hypothesis was" and correctly write the hypothesis in an appropriate tense.
- b. the student provides a research question rather than a hypothesis ("The hypothesis is, 'Do participants conform in groups?'").
- c. the student discusses only one variable ("Participants will conform").

## Point 5: Debriefing

To score this point, students must explain that researchers need to inform participants (**after** the experiment) that

- a. the experiment is actually about conformity or
- b. the experiment really is not about perceptual abilities (or line length) or
- c. they were misled by confederates or
- d. the confederates were not actually participants

### Note

- a. Do not score the point if the student merely states that debriefing occurs after the experiment.
- b. <u>Do not score</u> the point if the student simply discusses deception and not the need to clear up the deception ("Debriefing occurs when deception is used in an experiment").
- c. <u>Do not score</u> the point if the student limits the discussion of debriefing to a summary of the results of the experiment.
- d. Score the point if a student says that debriefing is not mentioned in the abstract.

# Question 2 (continued)

## Part B: Relation of Line Length Estimates to Concepts (Points 6 and 7)

To score either point in part B, students must relate their answers to participants' responses or conformity.

## Point 6: Cognitive dissonance

To score this point, students must describe

- a. a tension or discomfort created when a participant questions his or her own estimate of line length in light of the confederates' responses or
- b. conflicting (accept mismatched, discrepant, different, etc.) thoughts within a participant or between a participant's thoughts and behaviors ("The thoughts of the participants conflicted with the length estimates they gave").

#### Note

<u>Do not score</u> the point if the student describes a conflict between a participant and confederates ("Dissonance occurs when a participant disagrees with the confederates about line length"), because cognitive dissonance is intrapersonal, not interpersonal.

## Point 7: Maslow's hierarchy

To score this point, students must *relate* some aspect of Maslow's hierarchy of needs to participants' answers or conformity.

### Note

Students typically do this by

- a. *relating* love, belonging, acceptance, fitting in, affiliation (or a similar term) to participants' being more likely to conform in their estimates of line length <u>or</u>
- b. *relating* self-actualization to participants' being less likely to conform in their estimates of line length.

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

The control group of the experiment in this case the
Sand condition group to which participants estimated the length
of lines without hering estimates of confederates, server as
a comparison to the experimental group. Without a control groups the
Intividuals conducting the experiment would not be able to identify
a cause and affect relationship. The deception in the experiment
is whilized by the confederates, actors who are purposely lying
about the ostinates of the line in order to clicit an a conforming
response from the participants. The dependent variablein
an experiment is whatighing measured according to manipulations
in the independent (explanatory) unriable. In the context of this experiment,
the depend at mainte muld be the generally of the participants estimates
of line length. A hypothesis is a shtement that makes aprediction
about theresalts of an experiment, usually on the firm of a coase
and affect relationship. In this experiment, the hypothesis is that
Individuals will be less greent in their estimation of line length when
subject to conditions in which their fellow peers give an Insecurate
answer (which they believe to be true and thee conterns to). Adebricking
is the results of the experiment, in affect, a conclusion. In this
experiment, the shriefing debits the results that proficipents in
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idea when being influenced by a
majority. Peoples tendency to conform
always increases with the number
of Lother I people already adhering
to an idea. Cognitive dissonance
may have influenced participants
estimates of the line lengths.
When a person believes something
but then says out loud to others
that they believe something else,
they become distressed and TOOK for a
way to retreve the tension. This
may explain whey people conform.
They think they know the length of
the line, but start to second-gives
themselves when many others say
something else. The participant
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# AP® PSYCHOLOGY 2008 SCORING COMMENTARY

### Question 2

#### Overview

This question required students to apply their knowledge of research. The question presented the abstract of a research study and asked students to identify the components of the study (control group, deception, operational definition, hypothesis, debriefing). Finally, the question asked students to hypothesize how particular cognitive and motivational concepts could influence the outcome of the study.

Sample: 2AA Score: 6

The student earned Point 1 by correctly identifying the control group as the second condition. The essay states that deception is "utilized by the confederates," and was awarded Point 2. The student correctly provides a definition of the dependent variable as the accuracy of line length, so Point 3 was awarded. Point 4 was earned because the student correctly formulates the hypothesis as "individuals will be less accurate in their estimations of line length when ... their fellow peers give an inaccurate answer." Point 5 is not addressed in this essay. For Point 6, the student begins by providing a definition of cognitive dissonance, but the definition alone is not sufficient. The student earned Point 6 by linking the internal discrepancy of the perceived line length and the action of saying something different. Point 7 was earned because the student mentions lying about the line length as a way to meet relationship needs.

Sample: 2BB Score: 4

This essay did not earn Point 1 because the treatment group is incorrectly identified as the control group. The student correctly links the definition of deception to the experiment and so earned Point 2. The "rate of conformity" accurately describes one measure of the dependent variable, so the student earned Point 3. Point 4 was earned because the student offers a prediction of how conformity (IV) is linked to estimates of line length (DV). The student does not attempt Point 5. Two elements are required for the essay to earn Point 6. The student identifies cognitive dissonance as an operator in influencing participants' estimates, and an internal discrepancy is referenced with "says out loud to others that they believe something else," and so Point 6 was earned. The student does not attempt Point 7.

Sample: 2CC Score: 2

The essay did not earn Point 1 because the control group is incorrectly identified as the first, rather than the second, condition. The student does not attempt Points 2 and 3. Point 4 was not earned because the student phrases the hypothesis in the past tense. The essay did not earn Point 5 because the debriefing information does not relate the definition of debriefing to the content from the experiment. The student correctly identifies a discrepancy between what the participant knew to be the actual line length and what was reported and so earned Point 6. Point 7 was awarded because the student correctly relates the participants' need for acceptance to conformity.