AP® PSYCHOLOGY 2013 SCORING GUIDELINES

Question 1

General Considerations

- 1. Answers must be presented in sentences, and sentences must be cogent enough for the student's meaning to come through. 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.
- 2. A student will not be penalized for misinformation unless it *directly contradicts* correct information that would otherwise have scored a point. In that case, the point is not awarded.
- 3. Information must be presented in the context of the question. Context can be established by mentioning John, pizza coupons, readers, etc.

Part A: Refute John's Argument (refuting can be indicated by reduced reading)

Point 1: Correlational research

- A. To earn this point, the student must *refute* John's argument by saying correlation does not prove causation, OR
- B. The student must *refute* John's argument by saying that he has not established the directionality of the correlation or that the relationship might be due to a third variable, OR
- C. The student can earn this point with a discussion of correlational findings that *refute* John's claim (an example of correlational research that results in an outcome that differs from John's).

Example:

<u>Do not score</u> "Correlation does not prove causation" alone because the student did not establish context.

Point 2: Overjustification effect

A. The student must discuss *refuting* John's approach because extrinsic motivators can reduce intrinsic motivation.

Note:

Specific vocabulary, such as "intrinsic," is not needed; the student can indicate understanding without specific terms.

Examples:

<u>Score</u> "John's proposal would reduce desire to read" because "John's proposal" describes extrinsic motivators, "desire" indicates intrinsic motivation, and desire is reduced.

<u>Do not score</u> "John's approach would not be good because removing extrinsic motivation would stop the behavior" because the student does not address reducing intrinsic motivation.

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Question 1 (continued)

Part B: Strengthen John's Plan

Point 3: Schedules of reinforcement

- A. The student must identify a schedule of reinforcement (e.g., variable-interval, fixed-schedule, intermittent, or partial reinforcement) that enhances reading, strengthens John's plan, or supports John's plan, OR
- B. The student must describe a schedule of reinforcement that enhances reading, strengthens John's plan, or supports John's plan.

Notes:

- Mere mention of reinforcement is not sufficient; the student must name or describe schedules
 of reinforcement.
- The student can earn the point by describing a schedule and mislabeling it, as long as the student says it enhances reading.

Examples:

<u>Score</u> "John should use a fixed-interval schedule" because "should" implies an alternative for improvement of John's plan.

<u>Score</u> "Using a schedule of reinforcement that varies when a student receives a reward strengthens John's argument" because the student describes a schedule of reinforcement that varies and has indicated strengthening of John's plan.

<u>Do not score</u> "A schedule of reinforcement would help students know when to do their reading and strengthen John's plan" because no schedule of reinforcement is identified or described.

Part C: Influence Reader's View

Point 4: Belief perseverance

- A. The student must indicate that readers have an existing opinion and refuse to change their minds to match John's argument, OR
- B. The student must discuss that readers may agree with John even if others offer contradictory evidence, OR
- C. The student must argue that John maintains his beliefs in spite of contradictory evidence, and his belief perseverance influences the reader's view in some way.

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Question 1 (continued)

Point 5: Central route to persuasion

- A. The point scores if the student indicates that the reader actively processes John's proposal (e.g., considers facts, weighs evidence, draws conclusions) based on ideas in John's proposal, OR
- B. The student must say that John's research (e.g., logic, facts, statistics) influenced the reader's view in some way, OR
- C. The student must say that John was persuaded by logical arguments, which influenced the reader's view in some way.

Note:

• It is not sufficient for the student to discuss only the *peripheral* route to persuasion.

Examples:

<u>Score</u> "The reader considers John's proposal" because the student indicates that the reader thinks about John's proposal, which includes logical arguments.

<u>Score</u> "Readers accept John's argument that reading and rewards are correlated" because the student mentioned a piece of evidence offered by John and indicated that readers were influenced.

<u>Do not score</u> "John uses the central route of persuasion by making an argument based on facts" because there is no mention of influencing the reader.

Point 6: Retroactive interference

A. The point is scored with a response that indicates recent information interferes with older memories, as long as the answer is in the context of the question.

Note:

It is not sufficient for the student to discuss only proactive interference.

Point 7: Source amnesia

- A. The student must indicate that a reader of John's argument recalls the information but does not remember it came from John, OR
- B. The student must discuss a reader recalling information related to the issue but not remembering where it came from or how they learned it, OR
- C. The student must argue that John can have source amnesia, and this memory loss influences the reader's view in some way.

Correlational Research: A relationship between town is shown, both either increase in relation to one another, won Showed decreases

Question 1 is reprinted for your convenience.

- 1. In response to declining reading scores in local schools, John wrote an editorial suggesting that schools need to increase interest in reading books by providing students with incentives. Based on research showing a relation between use of incentives and student reading, he recommended providing a free pizza coupon for every ten books a student reads.
 - A. Explain how each of the following psychological concepts can be used to refute John's argument.
 - Correlational research
 - Overjustification effect
 - B. Explain how schedules of reinforcement can be used to strengthen John's plan.
 - C. Explain how each of the following psychological phenomena could influence a reader's view of John's argument.
 - Belief perseverance
 - Central route to persuasion
 - Retroactive interference
 - Source amnesia

C. Belief perseverance: A persons prexisting opinion is not
swayed by new, aftentimes contrary, information. In this
case, if a reader believes that Tohns planis
inefective, any new information will not be likely to
persuade him otherwise.
Central route to persuasion! A persons opinion is influenced
by fiche matters their account slows how if the couch as slowd
birng officed if they agree. In this case, a central route of personasion would insluence a reader to agree with John is he views the Sacts vas reasonable.
persuasion would influence a reader to agree with John is
he views the Sacts as reasonable
Retroactive intersprence: Information presented after
Sormation of memories interseres with recall of previous
memorics. In this case, a reader may have trouble
remembering Johns argument if he reads a dissevent

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Point of view on the same subject matter the white
making him more likely to agree with with the
Second then John.
Source-Amnosia: When a person forgets where he
galaced information and advibutes it to
a different source. If the reader forgets that
he read Johns artical in an editorial, and instead
at hutas if the and avalitied estadated sounds he
atributes it to a more qualified, scholarly source, ne will be more likely to agree.
will be more finding to agree.

ANSWER PAGE FOR QUESTION 1 found concerning The reservor that John HIMD WARRAN incentives and structured
reading, it is crucial to keep in mind that correlation does
not necessarily men causation. While yes, student reading rates do
increase when there is an incertive to do so, we do not mought of.
know if reading rates increase because of the reward or
if that schools are simply more apt to reward good
reaves. Further research would have to be done to citur
confirm or day this statement.
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The overjustification effect would mean that in this contexts
Johns plan night actually deter reading instead of increase it.
In placing a reward for reading, he night inaductantly
decrease the intrinsic value of reading for the children making
then ever more reluctant to sead.
John is on the right track though with the thought of ear
reinforcement in Regarder haumer, it night be more effective
if he had a better way of implimenting it. By using a
random interval reinforcement schedule (where children are
remarded for reading at random intervals), they would
be more inclined to read regularly, instead of viewing reading
as only series to get what they really want (pizza).
As the readers, there we some Psychological phenomena that
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 - Source amnesia

o Belief perserverance
- if we already believe that this is not the
best way to go about encouraging children to
read, then that belief will most likely carry
over into our reading of the argument.
Making us less apt to believe his
argunut
· Retroactive interference
- similarly, if we have had experiences that
lead is to believe otherwise then we will
be less likely to believe him.
O Source annesia
- the fact that we do not know where he
has getter this information, makes us more
hesitant to believe what he says If he were

13(30+3)
ADDITIONAL ANSWER PAGE FOR QUESTION 1 to include, in his editoral, where he had gotto his
information from, me as receders, would be more
likely to believe him.
o lestral route to persuasion
- John is very direct in his argument, which
makes wis the point that he is making
more believable
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, were

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A Correlational research needs to be applied to
This grument because it is not sufficient
encuan to say that reading scores are declining
Without any real Justiffication. John reas
top one that giving a tree pizza Cayoon
will help intrase rending scores.
MEL TUSHTHEOLDEN ELLECT & CON DE DESCUEDA
by onn's gravement of the way he ases
Mienares as a motivation for reading.
B. For John's argument he has many
ways to remterce tohns plan to marage preading
Scores. Schedules at reinfercement should be used
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is cotto used when someone wants to margase
behaven the best typical remtercement John
should use in positive for remover coment, its also
the one he is moved usmo. The syrical schools le
Should be a variable interval schedule. It is the asserted type of schedule most
resestant to extenction. He should use fixed interval liberuis. Handing out a coupen
EVERY ten books & is fixed interval, the needs
or printe and mains and a
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- Prize or reward of that doesn't depend on how Many books the kids have read.

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AP® PSYCHOLOGY 2013 SCORING COMMENTARY

Question 1

Overview

The question required students to respond to John's editorial about increasing reading in schools by using incentives. Within the essay, students were asked to address several concepts in psychology.

In Part A, students had to explain how correlational research and the overjustification effect can be applied to refute John's argument. For correlational research, students could explain that John's assumption is not supported by correlational research because correlation does not imply causation (with related problems, including the presence of a third variable and the inability to determine directionality of causation, if it exists). Students could also refute John's argument by discussing other research or data that finds a relationship different from that offered by John. When discussing the overjustification effect, the student had to explain that extrinsic motivators, such as pizza coupons, actually reduce intrinsic motivation. Thus, John's plan is refuted by the understanding that external rewards may, in fact, be detrimental to reading.

In Part B, students discussed schedules of reinforcement as they relate to increasing reading. Students identified a schedule of reinforcement by name or description and indicate that the outcome is beneficial (for example, enhancing reading or offering support of John's plan).

In Part C, the students discussed influencing a view based on belief perseverance, the central route to persuasion, retroactive interference, and source amnesia. For belief perseverance, students had to indicate that a belief is maintained when contradictory evidence is provided, and the answer needed to be within the context of the question (e.g., refers to John's plan or reading). For the central route to persuasion, students could discuss active processing of information, such as John's proposal or thinking about facts (e.g., data or statistics) that influence a reader. As an alternative, students could explain that John was persuaded by facts, which in turn influenced the reader. For retroactive interference, students had to explain that recent information interferes with older memories, and the answer must be in the context of the question. Finally, for source amnesia, students had to describe remembering information but not recalling the source of information, and the answer had to be tied to the question with contextual terms such as John's plan, pizza coupons, or reading.

Sample: 1A Score: 7

Point 1 was awarded because the essay states that correlation does not mean causation, and the answer was in the context of the question. Point 2 was granted because the essay states that intrinsic motivation will decrease when rewards are given. The essay earned point 3 by suggesting a change from a fixed-ratio to an interval schedule, encouraging students to persist in reading. The response earned point 4 by discussing persistent disagreement with John's plan regardless of any new information that John offers. Point 5 was awarded because the essay indicates that the reader will agree with John because he presents reasonable facts. The essay earned point 6 because the student defines retroactive interference and then ties it to the question for context. The response earned point 7 by defining source amnesia and tying the answer to John's article.

AP® PSYCHOLOGY 2013 SCORING COMMENTARY

Question 1 (continued)

Sample: 1B Score: 4

The response earned point 1 by explaining that correlation does not mean causation and mentioning student reading rates to establish context. Point 2 was awarded because the essay indicates that rewards for reading may decrease intrinsic motivation to read. The essay earned point 3 by referring to an interval schedule of reinforcement as a better way to enhance reading than John's plan. The response earned point 4 by explaining that belief perseverance means that people who have an opinion different from John's will not believe his argument. Point 5 did not score because the student describes the central route to persuasion as a direct argument, which is not sufficient to indicate facts, logic, or details. The essay erroneously describes retroactive interference as holding beliefs based on experiences and did not earn point 6. The response did not earn point 7 because source amnesia is explained as people being less likely to believe John because he neglected to include his sources in the editorial.

Sample: 1C Score: 2

Point 1 was not earned because the essay states that correlation does not justify arguments. The essay did not earn point 2 because the overjustification effect was not explained. The response earned point 3 by explaining that John should use a variable-interval schedule to increase reading because this schedule is resistant to extinction. Point 4 was earned because the essay argues that readers with their own beliefs will keep their beliefs in spite of hearing John's argument. The response did not earn point 5 because belief perseverance is not addressed in this essay. Point 6 was not earned because the essay erroneously explains proactive interference rather than retroactive interference. The response did not earn point 7 because source amnesia was not addressed.