

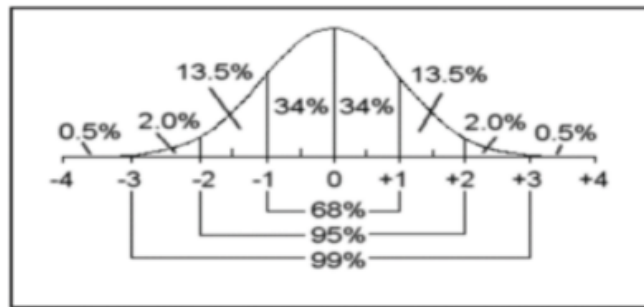


# Multiple Choice Answer Key & Explanations

## Scientific Foundations of Psychology

1. Researchers are conducting a study that seeks to better understand the impact that different social media apps have on a high school student's behaviors. The researcher conducting the study randomly assigns high school students to two different groups. One group watches TikTok videos for one hour, while the other group watches YouTube videos. After the two groups watched the content they were observed throughout the rest of their school day to see if there was any change in their behaviors. What research method is being used?

|                             |   |
|-----------------------------|---|
| A. Case study               | This is not the correct answer. Case studies seek to gain more insight into a particular topic and do not compare different variables in a controlled setting |
| B. Naturalistic observation | This is not the correct answer. Naturalistic observation is when researchers observe behaviors in the real world, there is no staged setting or lab           |
| C. Longitudinal             | This is not the correct answer. These type of studies follow one particular group of individuals over a long period of time                                   |
| <b>D. Experimental</b>      | <b>This is the correct answer. Experiments allow a research to understand the relationship between an IV and a DV</b>   |
| E. Quasi-experiment         | This is not the correct answer. These experiments are used in situations where it would be impossible or unethical to do a controlled experiment              |



2. Use the graph above to answer the following question on a set of test scores. The mean of the class test scores is 100, and the standard deviation is 10. What is the percentile rank for 120?

|                 |   |
|-----------------|---|
| A. 16%          | This is not the correct answer. This would align with a score of 40   |
| B. 50%          | This is not the correct answer. This would align with a score of 100  |
| C. 67%          | This is not the correct answer. This would align with a score of 105  |
| D. 84%          | This is not the correct answer. This would align with a score of 110  |
| <b>E. 97.5%</b> | <b>This is the correct answer. Each z-score is 10 points, if the mean is 100 we would need to move 2 z-scores to the right to get to 120 (.5+2+13.5+34+34+13.5= 97.5)</b> |



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3. Researchers are conducting a study that seeks to better understand the impact that different social media apps have on a high school student's behaviors. The researcher conducting the study randomly assigns high school students to two different groups. One group watches TikTok videos for one hour, while the other group watches YouTube videos. After the two groups watched the content they were observed throughout the rest of their school day to see if there was any change in their behaviors. What is the independent variable in the study?

|   |  |
|---|--|
| A. The number of students in the study                          | This is not the correct answer. The number of students in the study would be the sample  |
| B. The student's behavior before the study                      | This is not the correct answer. This may be used to set a baseline for the students behavior, but would not be the independent variable  |
| C. The time in which the students were observed after the study | This is not the correct answer. This is simply the length of the study   |
| <b>D. The type of social media the students watched</b>         | <b>This is the correct answer. This variable is not impacted by other variables and is the variable being studied. The focus of the study is to see if the social media apps alter student behaviors. (IV = Cause)</b> |
| E. The sex of the students in the study                         | This is not the correct answer. This would be the demographics of the sample group of the study  |

4. Violet was looking to find new ways to motivate her employees and increase her businesses production. Which of the following field of psychology would most likely be able to help Violet with this task?

|                                     |   |
|-------------------------------------|---|
| <b>A. Industrial-organizational</b> | <b>This is the correct answer. This psychology focuses on understanding how to optimize human behavior in the workplace</b>                                 |
| B. Developmental                    | This is not the correct answer. This type of psychology studies people's physical, cognitive, and social changes throughout their lifespan                  |
| C. Humanistic                       | This is not the correct answer. This type of psychology focuses on positive aspects of an individual with an emphasis on people reaching self-actualization |
| D. Educational                      | This is not the correct answer. This type of psychology focuses on understanding how different individuals learn  |
| E. Cognitive                        | This is not the correct answer. This type of psychology studies how people think, solve problems, and perceive the world                                    |



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|  |  |
|--|--|
| 5. A _____ is a variable that was not accounted for in an experiment but does have an impact on the outcome of an experiment |  |
| A. Dependent Variable  | This is not the correct answer. This is the measured variable (This is the effect from the IV)   |
| <b>B. Confounding Variable</b>   | <b>This is the correct answer. These are variables that were not accounted for in an experiment that do impact the outcome of the experiment</b> |
| C. Independent Variable  | This is not the correct answer. This is variable that is altered by the researcher to see how it impacts the DV (IV = Cause)                     |
| D. Control Variable  | This answer is not correct. This is the group gets the placebo and is the baseline group   |
| E. Placebo   | This answer is not correct. This is a variable that is similar to the IV, but is missing one key component of the IV                             |

|  |   |
|--|---|
| 6. _____ was the first woman to earn a psychology degree and was the second female president of the APA. |   |
| A. Mary Whiton Calkins   | This is not the correct answer. Mary Whiton Calkins was the first female president of the APA   |
| B. Dorothea Dix  | This is not the correct answer. Dorothea Dix is most known for her work with the mentally ill   |
| <b>C. Margaret Floy Washburn</b>   | <b>This is the correct answer. Margaret Floy Washburn was the second female president of the APA and first female to earn a psychology degree</b> |
| D. Carol Gilligan  | This is not the correct answer. Carol Gilligan was known for her research into moral development  |
| E. Mary Ainsworth  | This is not the correct answer. Mary Ainsworth was known for her strange situation test   |



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7. While at work you notice that there are people that are observing you and the other employees. You have heard rumors that the company is looking to increase its production and may lay people off. Once you notice that you are being observed you start to work harder and make sure that you look good to the observers. Which of the following answers best explains this behavioral change?

|                            |  |
|----------------------------|--|
| A. False consensus effect  | This is not the correct answer. This is when an individual overestimates how many others share their opinions or ideas         |
| B. Confirmation bias       | This is not the correct answer. This is when individuals focus on specific information that is consistent with their viewpoint |
| C. Researcher bias         | This is not the correct answer. This is when a researcher unknowingly influences that outcome of the research                  |
| <b>D. Hawthorne effect</b> | <b>This is the correct answer. This is when a participant alters their behavior because they know they are being observed</b>  |
| E. Experimenter bias       | This is not the correct answer. This is when a researcher unknowingly influences that outcome of the research                  |

8. Jonathan is seeking to better understand how study habits differ from students who are taking AP Psychology and AP Human Geography. AP Psychology has 200 students and AP Human Geography has 180 students. For Jonathan's study he randomly picks 50 students from each class to participate in his study. The group of 50 students would be known as?

|                       |  |
|-----------------------|--|
| A. Population         | This is not the correct answer. This is all of the individuals in the group being studied                              |
| B. Placebo group      | This is not the correct answer. This is the group that receives the placebo  |
| C. Control group      | This is not the correct answer. This is the group that receives the placebo  |
| <b>D. Sample</b>      | <b>This is the correct answer. This a selected group of the population that represents the population in the study</b> |
| E. Dependent Variable | This is not the correct answer. This is the measured variable (This is the effect from the IV)                         |



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| 9. Which of the following data sets shows the weakest correlation coefficients? |   |  |   |   |
|---|---|--|---|---|
| <p>A.</p>   | <p>B.</p>   | <p>C.</p>  | <p>D.</p>   | <p>E.</p>   |
| <p>This is not the correct answer. This is a positive correlation</p>           | <p>This is not the correct answer. This is a negative correlation</p> | <p><b>This is the correct answer. There is no correlation here</b></p> | <p>This is not the correct answer. This is a positive correlation</p> | <p>This is not the correct answer. This is a negative correlation</p> |

| 10. When creating a study a researcher cannot do which of the following?                                 |   |
|--|---|
| <p>A. Allow participants to participate in unnecessarily risky actions, as long as they gave consent</p> | <p>This is not the correct answer. A researcher cannot put participants in unnecessarily risky situations, even with consent. (All of these options are unethical)</p>                          |
| <p>B. Deny participants information about the study and the risks involved before they participate</p>   | <p>This is not the correct answer. It is unethical to deny the participants information about the possible risks with a study before they participate. (All of these options are unethical)</p> |
| <p>C. Publish the name of the participants of the study once the study is completed</p>                  | <p>This is not the correct answer. It would be unethical to publish the names of all of the participants of a study. (All of these options are unethical)</p>                                   |
| <p>D. Conduct a study without participants informed consent</p>  | <p>This is not the correct answer. It would be unethical to have a person be part of a study without their consent. (All of these options are unethical)</p>                                    |
| <p><b>E. All of the above</b></p>  | <p><b>This is the correct answer. All of the following would be unethical for a researcher to do</b></p>  |