

Live! Psych: Intro to Psych & its Methods Appendix

Name: _____

ID: _____

Course: Psych 1100 Section: _____

Date: _____

Simulation: Experimental Methods

1. Define a hypothesis

2. Dr. W and his colleagues examined the effects of violent scenes on aggressive behavior among teenagers.
 - i) Based upon the above example, identify the:

Independent Variable: _____

Dependent Variable: _____

 - ii) Provide a definition for an independent and dependent variable.

3. Define random sampling.

4. What is a biased sample?

5. What function does an operational definition serve?

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6. Explain what the control group is. How does this differ from the experimental group?
7. What is the independent variable in Bandura's Bobo doll study?

Simulation: Correlational Studies

1. What is a correlation?
2. Explain the difference between a positive correlation and a negative correlation.
3. Give an example of a negative correlation.
4. What does a zero correlation mean? What example does *Live!Psych* give as an example of a zero correlation?
5. What is a scatterplot?
6. Explain what the strength of the correlation coefficient (r) means.
7. Explain what the third variable problem is and give an example.

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Simulation: Statistics

1. Explain the differences between descriptive and inferential statistics.
2. What are the three measures of central tendency, define each.
3. The following data represents your grades in your first year Anthropology class: each grade is out of a potential 20 marks.
Calculate the three measures of central tendency:

<u>Quiz #</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
Marks (out of 20)	13	16	14	10	17	16	18	12	16	18

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4. Draw three different graphs to indicate: normal distribution, skewed distribution and bimodal distribution.

Normal Distribution	Skewed Distribution	Bimodal Distribution

5. Explain what a measure of variability is. Define and calculate the range and standard deviation, using the data from question# 3.

6. What is the implication of a statistically significant result?