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# Interpreting Statistics Worksheet Guidelines and Rubric

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## PSY 335 Interpreting Statistics Worksheet Guidelines and Rubric

In order for psychologists to conduct effective assessments, they must interpret test data. This assignment provides you an opportunity them. This assignment is intended as a review of descriptive statistics and correlation—a refresher to set the stage for understanding how understand what the scores represent, and to be able to summarize the data in a meaningful way.

## Prompt

The included data set contains two sets of data—Verbal IQ test scores and Reading test scores, along with descriptive statistics for each variables. Please answer the following questions in the space provided in the [Interpreting Statistics Worksheet](#).

**In the Interpreting Statistics Worksheet, the following critical elements, specifically, must be addressed:**

I. Using the provided data and graphs, describe the **frequency distribution** for the **IQ test**:

    a. What is a typical score for this sample?

    b. How variable are the scores?

    c. How are the scores distributed?

II. Using the provided data and graphs, describe the **frequency distribution** of the **reading test scores**:

    a. What is a typical score for this sample?

    b. How variable are the scores?

    c. How are the scores distributed?

III. Consider the **correlation data** given the provided data and graph:

    a. How are IQ and reading achievement related?

IV. **Evaluate the data** from a psychological testing perspective.

    a. Are these samples good representations of the general population? How do you know?

    b. What could you do to make them a more representative sample?

    c. How would you interpret the correlation results?

    d. What are some ways this knowledge of their relationship could be used?

## What to Submit

Your one- to two-page worksheet must be submitted using the Interpreting Statistics Worksheet. Cite any sources using APA format.

## Interpreting Statistics Worksheet Rubric

| Criteria | Exemplary (100%) | Proficient (85%) | Needs Improvement (55%) |
|---|---|---|---|
| **Frequency Distribution: IQ Test** | Meets "Proficient" criteria, and response contains no errors and is logical and informed by statistical knowledge | Correctly describes typical score, variable of score, and score distribution of IQ Test data set; minor errors present; response is logical and demonstrates statistical knowledge | Describes typical score, variable of score, and score distribution of IQ Test data set, but response is illogical or overlooks key statistical facets; response is also incorrect, missing, or containing illogical conclusions |
| **Frequency Distribution: Reading Test Scores** | Meets "Proficient" criteria and response contains no errors and is logical and informed by statistical knowledge | Correctly describes typical score, variable of score, and score distribution of Reading Test data set; response is logical and demonstrates statistical knowledge | Describes typical score, variable of score, and score distribution of Reading Test data set, but response is illogical or overlooks key statistical facets; response is also incorrect, missing, or containing illogical conclusions |
| **Correlation Data** | Meets "Proficient" criteria and supports correlation with scholarly research and examples | Correctly relates results of IQ and Reading Test scores by using relevant psychological methodology | Relates results of IQ and Reading Test scores by using relevant psychological methodology, but correlation is illogical or overlooks key components |
| **Evaluate the Data** | Meets "Proficient" criteria and strengthens conclusions with examples from scholarly research | Draws informed conclusions regarding representations, samples, and relationships within data sets | Draws conclusions regarding representations, samples, and relationships within data sets, but correlation is illogical or overlooks key aspects |
| **Articulation of Response** | Submission is free of errors related to citations, grammar, spelling, syntax, and organization and is presented in a professional and easy-to-read format | Submission has no major errors related to citations, grammar, spelling, syntax, or organization | Submission has major errors related to citations, grammar, spelling, syntax, or organization that negatively impact readability and articulation of main ideas |
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