Introduction to Political and Social Data Analysis With R 1st edition Holbrook Test Bank

SKU: 9781071929421-TEST-BANK

Introduction to Political and Social Data Analysis With R (1st)

ISBN 9781071929421 | Chapter 1

Total Questions: 50

Multiple Choice (25)

Q1. *[Multiple Choice] · Cognitive Domain: Knowledge*

What type of data is described by the example: "number of political science courses taken by a student"?

a) Nominal
b) Ordinal
c) Interval
d) Ratio ✓ correct

Q2. *[Multiple Choice] · Cognitive Domain: Comprehension*

Which level of measurement involves categories that can be ranked but do not have specific numerical differences between them?

a) Nominal
b) Ordinal ✓ correct
c) Interval
d) Ratio

Q3. *[Multiple Choice] · Cognitive Domain: Knowledge*

What is a characteristic of interval–level data?

a) Arbitrary zero point ✓ correct
b) Categories with qualitative differences
c) Genuine zero point
d) Non–ranked categories

Q4. *[Multiple Choice] · Cognitive Domain: Comprehension*

When describing data as "continuous," which of the following is correct?

a) The data values are finite and cannot be subdivided.
b) The data values can be infinitely subdivided. ✓ correct
c) The data values are qualitative only.
d) The data values are ranked but not ordered.

Q5. *[Multiple Choice] · Cognitive Domain: Analysis*

Which of the following is an example of nominal data?

a) Types of religions (e.g., Protestant, Catholic) ✓ correct
b) Levels of education (e.g., high school, bachelor's)
c) Ratings of satisfaction (e.g., 1–10 scale)
d) Temperatures (e.g., Celsius, Fahrenheit)

Q6. *[Multiple Choice] · Cognitive Domain: Knowledge*

What is the primary goal of descriptive analysis in data analysis?

a) To explain the causal relationships between variables
b) To describe how measures of outcomes are distributed ✓ correct
c) To predict future trends based on historical data
d) To test specific hypotheses about variable outcomes

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Q7. *[Multiple Choice] · Cognitive Domain: Comprehension*

Which type of data analysis involves developing and testing hypotheses about how outcomes on some variables are influenced by outcomes on others?

a) Descriptive analysis
b) Predictive analysis
c) Explanatory analysis ✓ correct
d) Inferential analysis

Q8. *[Multiple Choice] · Cognitive Domain: Application*

In the context of data analysis, what is the primary purpose of using statistical methods?

a) To separate data analysis from statistical learning
b) To highlight the abstract mathematical foundations of statistics
c) To facilitate the analysis of political and social outcomes ✓ correct
d) To avoid using mathematical formulas in data analysis

Q9. *[Multiple Choice] · Cognitive Domain: Analysis*

Which of the following best describes the focus of data analysis in social science research?

a) Developing new statistical theories
b) Describing and explaining outcomes ✓ correct
c) Predicting future economic trends
d) Analyzing only political outcomes

Q10. *[Multiple Choice] · Cognitive Domain: Analysis*

What is the main distinction between descriptive and explanatory analysis?

a) Descriptive analysis uses quantitative data, while explanatory analysis uses qualitative data.
b) Descriptive analysis focuses on what happened, while explanatory analysis focuses on why it happened. ✓ correct
c) Descriptive analysis is only used in political science, while explanatory analysis is used in sociology.
d) Descriptive analysis requires statistical methods, while explanatory analysis does not.

Q11. *[Multiple Choice] · Cognitive Domain: Knowledge*

What is the first step in developing a research hypothesis?

a) Collecting data for the study
b) Formulating a research question ✓ correct
c) Testing the hypothesis
d) Analyzing the results

Q12. *[Multiple Choice] · Cognitive Domain: Comprehension*

When developing a hypothesis, which of the following elements is essential?

a) Random sampling
b) Control group
c) Theoretical grounding ✓ correct
d) Data visualization

Q13. *[Multiple Choice] · Cognitive Domain: Application*

Consider the research question: “Does economic prosperity influence the level of popular support for the incumbent president?” Which of the following is an appropriate hypothesis?

a) Economic prosperity has no effect on the level of popular support for the incumbent president.
b) Economic prosperity affects the level of popular support for the incumbent president.
c) Economic prosperity is related to the level of popular support for the incumbent president.
d) Economic prosperity is positively related to the level of popular support for the incumbent president. ✓ correct

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Q14. *[Multiple Choice] · Cognitive Domain: Analysis*

Why is it important to identify both the independent and dependent variables in a hypothesis?

a) To ensure that the hypothesis can be tested statistically ✓ correct
b) To create a detailed literature review
c) To predict the outcome of the study
d) To manipulate the variables during data collection

Q15. *[Multiple Choice] · Cognitive Domain: Synthesis*

Which of the following hypotheses aligns with the research question: “How does voter turnout affect election outcomes in urban areas?”

a) Voter turnout has no effect on election outcomes in urban areas.
b) Higher voter turnout leads to more competitive election outcomes in urban areas. ✓ correct
c) Election outcomes in urban areas are influenced by the number of candidates.
d) Lower voter turnout increases the incumbency advantage in urban areas.

Q16. *[Multiple Choice] · Cognitive Domain: Knowledge*

What is the primary concern with validity in measurement?

a) Ensuring measurements are consistent over time
b) Making sure operational variables represent concepts accurately ✓ correct
c) Using complex statistical methods
d) Collecting data from multiple sources

Q17. *[Multiple Choice] · Cognitive Domain: Comprehension*

How can a researcher assess the face validity of a measure?

a) By conducting a detailed statistical analysis
b) By ensuring the measure appears to reflect the concept it is intended to ✓ correct
c) By comparing results with other studies
d) By using complex algorithms

Q18. *[Multiple Choice] · Cognitive Domain: Knowledge*

Which of the following best describes reliability in measurement?

a) The degree to which a measure accurately represents the concept it is intended to
b) The consistency of a measure across different points in time or samples ✓ correct
c) The ability of a measure to predict future outcomes
d) The simplicity of data collection methods

Q19. *[Multiple Choice] · Cognitive Domain: Application*

What is an indicator of a reliable measure in the context of measuring presidential approval?

a) Outcomes of polls that vary widely from day–to–day
b) Poll results that remain consistent over time ✓ correct
c) Polls that are conducted by multiple researchers
d) Poll questions that are revised frequently

Q20. *[Multiple Choice] · Cognitive Domain: Analysis*

Why is it important to ensure both validity and reliability in measurements?

a) To increase the sample size of the study
b) To ensure accurate and consistent representation of concepts ✓ correct
c) To reduce the cost of data collection
d) To simplify the data analysis process

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Q21. *[Multiple Choice] · Cognitive Domain: Knowledge*

What is the primary purpose of data visualization in research findings?

a) To display research findings graphically ✓ correct
b) To calculate statistical significance
c) To conduct hypothesis testing
d) To measure the strength of relationships

Q22. *[Multiple Choice] · Cognitive Domain: Comprehension*

When interpreting research findings, what should researchers focus on according to the document?

a) The strength of relationships and level of confidence in the findings ✓ correct
b) The raw data and statistical formulas
c) The theoretical framework and literature review
d) The research methodology and data collection techniques

Q23. *[Multiple Choice] · Cognitive Domain: Application*

Why is it important to use words in the interpretation of statistical results?

a) Because statistical results alone do not provide a coherent substantive explanation ✓ correct
b) Because visualizations are always misleading
c) Because computer commands are unreliable
d) Because words can replace statistical results

Q24. *[Multiple Choice] · Cognitive Domain: Knowledge*

In the analysis of the relationship between economic growth and presidential support, what variables were used?

a) Percentage change in real GDP per capita and incumbent presidential party candidate's percent of the two–party national popular vote ✓ correct
b) Voter turnout and percentage change in unemployment rate
c) Percentage change in inflation rate and presidential approval rating
d) Public opinion polls and consumer confidence index

Q25. *[Multiple Choice] · Cognitive Domain: Analysis*

How should researchers discuss and interpret their findings when they have a small sample size?

a) With caution, noting the potential for the next few cases to alter the relationship significantly ✓ correct
b) With confidence, as small sample sizes ensure accuracy
c) By ignoring the sample size and focusing on the results
d) By averaging the results to minimize errors

True/False (15)

Q26. *[True/False] · Cognitive Domain: Knowledge*

Nominal level variables have categories that differ in kind or quality only.

a) True ✓ correct
b) False

Correct answer: True

Q27. *[True/False] · Cognitive Domain: Comprehension*

Interval level variables have numeric values where equal differences between values have equal quantitative meaning.

a) True ✓ correct
b) False

Correct answer: True

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Q28. *[True/False] · Cognitive Domain: Knowledge*

Ordinal level variables cannot be arranged in a meaningful order.

a) True

b) False ✓ correct

Correct answer: False

Q29. *[True/False] · Cognitive Domain: Knowledge*

Descriptive analysis is used to show how measures of some outcomes are distributed.

a) True ✓ correct

b) False

Correct answer: True

Q30. *[True/False] · Cognitive Domain: Comprehension*

Explanatory analysis focuses on why outcomes occur rather than just describing them.

a) True ✓ correct

b) False

Correct answer: True

Q31. *[True/False] · Cognitive Domain: Analysis*

Descriptive analysis and explanatory analysis are completely unrelated and cannot be used together.

a) True

b) False ✓ correct

Correct answer: False

Q32. *[True/False] · Cognitive Domain: Knowledge*

A hypothesis is an assertion that variations in one variable are associated with or cause variations in another variable.

a) True ✓ correct

b) False

Correct answer: True

Q33. *[True/False] · Cognitive Domain: Comprehension*

Independent variables are those that are influenced by the dependent variables.

a) True

b) False ✓ correct

Correct answer: False

Q34. *[True/False] · Cognitive Domain: Application*

The theory of retrospective voting suggests that voters base their support for the incumbent president on the results of the president's policies rather than their ideological positions.

a) True ✓ correct

b) False

Correct answer: True

Q35. *[True/False] · Cognitive Domain: Knowledge*

The primary concern with validity is ensuring that the operational variables are good representations of the concepts they are intended to measure.

a) True ✓ correct

b) False

Correct answer: True

Q36. *[True/False] · Cognitive Domain: Comprehension*

Face validity refers to the degree to which a measure appears to accurately reflect the concept it is intended to measure.

a) True ✓ correct

b) False

Correct answer: True

Q37. *[True/False] · Cognitive Domain: Knowledge*

Reliability concerns the accuracy of the measure rather than its consistency over time.

a) True

b) False ✓ correct

Correct answer: False

Q38. *[True/False] · Cognitive Domain: Knowledge*

Data visualization helps in displaying research findings graphically to aid in understanding.

a) True ✓ correct

b) False

Correct answer: True

Q39. *[True/False] · Cognitive Domain: Comprehension*

Interpreting research findings should focus on both the strength of relationships and the level of confidence in the findings.

a) True ✓ correct

b) False

Correct answer: True

Q40. *[True/False] · Cognitive Domain: Analysis*

Scatterplots alone provide a complete and precise explanation of research findings without the need for additional statistical information.

a) True

b) False ✓ correct

Correct answer: False

Essay (10)

Q41. *[Essay] · Cognitive Domain: Knowledge*

Explain the main difference between nominal and ordinal level variables.

Suggested answer: *Sample response: Nominal level variables have categories or characteristics that differ in kind or quality only, without any quantitative difference. In contrast, ordinal level variables have categories that can be arranged in a meaningful order, allowing for greater/less than comparisons but without specifying the magnitude of difference between categories.*

Q42. *[Essay] · Cognitive Domain: Knowledge*

What is the primary goal of descriptive analysis in data analysis?

Suggested answer: *Sample response: The primary goal of descriptive analysis is to describe something by showing how measures of some outcomes are distributed. This can involve reporting simple results or using graphing tools to visualize the outcomes.*

Q43. *[Essay] · Cognitive Domain: Comprehension*

How does a hypothesis differ from a theory in the research process?

Suggested answer: *Sample response: A theory is a set of logically connected propositions used to explain a given outcome or set of outcomes. A hypothesis is a specific assertion derived from the theory, usually asserting that variations in one variable are associated with or cause variations in another variable.*

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Q44. *[Essay] · Cognitive Domain: Analysis*

What is the difference between validity and reliability in the context of measurement?

Suggested answer: *Sample response: Validity refers to the accuracy of a measure in representing the concept it is intended to measure, while reliability refers to the consistency of the measure over time or across different samples.*

Q45. *[Essay] · Cognitive Domain: Analysis*

Why is it important to use both statistical findings and data visualization in interpreting research results?

Suggested answer: *Sample response: It is important to use both statistical findings and data visualization because while statistical results provide precise numerical information about the relationships between variables, data visualizations help in contextualizing and intuitively understanding these relationships. Together, they provide a more comprehensive understanding of the research findings.*

Q46. *[Essay] · Cognitive Domain: Analysis*

Differentiate between nominal, ordinal, and interval/ratio level variables. Provide examples of each and explain the significance of understanding these differences in the context of data analysis.

Suggested answer: *Sample response: Nominal level variables have categories that differ in kind or quality only, without any quantitative difference. Examples include religious affiliation (e.g., Protestant, Catholic, Jewish) and marital status (e.g., married, divorced, single). Ordinal level variables can be arranged in a meaningful order, allowing for greater/less than comparisons, but without specifying the magnitude of difference between categories. An example is the level of religiosity (e.g., not at all important, slightly important, somewhat important, very important). Interval/ratio level variables are the most quantitative in nature and have numeric values where equal differences between values have equal quantitative meaning. For example, the number of days a week someone prays (0-7 days). Understanding these differences is crucial for selecting appropriate statistical methods and accurately interpreting data.*

Q47. *[Essay] · Cognitive Domain: Comprehension*

Describe the difference between descriptive and explanatory data analysis techniques. Provide an example of when each technique would be appropriately used.

Suggested answer: *Sample response: Descriptive analysis aims to describe the distribution of measures in a dataset, such as summarizing data trends or visualizing outcomes. For example, media coverage of public opinion polls that report the percent of voters who intend to vote for a candidate. Explanatory analysis, on the other hand, seeks to explain why or how outcomes occur by analyzing the relationships between variables. For instance, explaining voter behavior by examining how demographic characteristics relate to political preferences. Understanding the distinction between these techniques helps researchers choose the appropriate approach for their specific research goals.*

Q48. *[Essay] · Cognitive Domain: Application*

Discuss the importance of developing hypotheses in the research process. How do hypotheses contribute to the structure and direction of a research study?

Suggested answer: *Sample response: Developing hypotheses is a crucial step in the research process as they provide a clear statement of the expected relationship between variables. Hypotheses are derived from theories and serve to guide the research by specifying what the researcher intends to investigate. For example, the hypothesis that economic prosperity is positively related to the level of popular support for the incumbent president helps to focus the research on testing this specific relationship. Hypotheses also facilitate the operationalization of variables, enabling researchers to move from abstract concepts to concrete, measurable entities. This structured approach ensures that the research is systematic, and that the data collected are relevant to answering the research question.*

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Q49. *[Essay] · Cognitive Domain: Analysis*

Evaluate the concepts of validity and reliability in the context of measurement. Why are both important in ensuring the quality of research data?

Suggested answer: *Sample response: Validity and reliability are fundamental to the quality of research data. Validity refers to the extent to which a measure accurately represents the concept it is intended to measure. For example, using GDP change as an operational measure of economic prosperity. If a measure lacks validity, the research findings may be flawed because the data do not truly reflect the underlying concepts. Reliability, on the other hand, concerns the consistency of a measure over time or across different samples. For instance, consistent outcomes in presidential approval polls indicate high reliability. Both validity and reliability are crucial because they ensure that the data collected are both accurate and consistent, which is essential for drawing meaningful and trustworthy conclusions from the research.*

Q50. *[Essay] · Cognitive Domain: Analysis*

Explain the role of data visualization in interpreting research findings. How does it complement statistical analysis in presenting research results?

Suggested answer: *Sample response: Data visualization plays a vital role in interpreting research findings by providing a graphical representation of the data, which helps to contextualize and understand the results more intuitively. For example, scatterplots can illustrate the relationship between economic growth and presidential support, making it easier to identify trends and patterns. While statistical analysis provides precise numerical information about relationships between variables, data visualization helps to communicate these findings more effectively to a broader audience. The combination of both statistical analysis and data visualization ensures that research results are both accurate and accessible, enhancing the overall impact and comprehension of the findings.*

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