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Elementary Statistics in Social Research, 12th Edition. (ISBN: 0205845487)

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CHAPTER 1

Why the Social Researcher Uses Statistics

Chapter 1: Multiple Choice Questions

- 1. A hypothesis is a(n):
 - a. fundamental unit of scientific observation.
 - b. statement of the relationship between two or more variables.
 - c. scientific fact of truth.
 - d. observable and measurable variable.

b. statement of the relationship between two or more variables. Answer:

Objective: Factual Page number: 2 Level: Basic

2. In a hypothesis, the presumed cause is called the:

3. In a hypothesis, the presumed effect is called the:

- a. dependent variable.
- b. independent variable
- c. aggregate.
- d. constant.

Answer: b. independent variable.

Objective: Factual Page number: 2 Level:

Basic

- a. dependent variable.
 - b. independent variable.
 - c. aggregate.
 - d. constant.

Answer: a. dependent variable.

Objective: Factual

Page number: 2 Level: Basic

Instructions: Questions 4-7 refer to the following situation:

A social work student is interested in studying the relationship between an adult's age and their view on off-shore drilling. The student plans to compare adults who consider themselves Extremely anti-drilling, Anti-drilling, Neutral, Pro-drilling, and Extremely pro-drilling.

- 4. The dependent variable is:
 - a. age.
 - b. view on off-shore drilling.

- c. state in which the person lives.
- d. none of the above

Answer: b. view on off-shore drilling.

Objective: Conceptual

Page number: 2 Level: Basic

- 5. What level of measurement is 'view on off-shore drilling' for this research question?
 - a. Nominal
 - b. Ordinal
 - c. Interval/ratio
 - d. None of the above

Basic

Answer: b. Ordinal
Objective: Conceptual
Page number: 12-14

Level:

- 6. The researcher chose to measure age as a number between 18 and 110. What level of measurement is age for this research question?
 - a. Nominal
 - b. Ordinal
 - c. Interval/ratio
 - d. None of the above

Answer: c. Interval/ratio
Objective: Conceptual
Page number: 12-14
Level: Basic

- 7. The independent variable is:
 - a. age
 - b. view on off-shore drilling
 - c. state in which the person lives
 - d. none of the above

Answer: a. age Objective: Conceptual

Page number: 2 Level: Basic

- 8. The stages of research do NOT always include:
 - a. data collection.
 - b. data analysis.
 - c. algebra.
 - d. interpretation of results.

Answer: c. algebra Objective: Factual Page number: 11 Level: Basic

- 9. Social researchers can use measurement to:
 - a. name or categorize data.
 - b. rank order data.
 - c. assign a score.
 - d. all of the above

Answer: d. all of the above

Objective: Factual Page number: 11 Level: Basic

- 10. Nominal measurement is used primarily to:
 - a. name or categorize data.
 - b. rank order data.
 - c. both of the above
 - d. none of the above

Answer: a. name or categorize data.

Objective: Factual Page number: 12 Level: Basic

- 11. Ordinal measurement is used primarily to:
 - a. assign a score.
 - b. rank order data.
 - c. both of the above
 - d. none of the above

Answer: b. rank order data.

Objective: Factual Page number: 13-14 Level: Basic

- 12. Interval/ratio measurement is used primarily to:
 - a. name or categorize data.
 - b. assign a score.
 - c. both of the above
 - d. none of the above

Answer: b. assign a score.

Objective: Factual Page number: 13-15 Level: Basic

13. A social researcher is interested in studying the relationship between an abstinence-only program and teen pregnancy. To test her hypothesis, she compares the results of 50 teens participating in an abstinence-only program to 50 teens participating in a more conventional sexeducation program. What type of research is this?

- a. Experiment
- b. Survey
- c. Content analysis
- d. Secondary analysis

Answer: a. Experiment Conceptual

Page number: 3-9

Level: Intermediate

- 14. A team of researchers is interested in determining how national political figures have been depicted historically on TV. The researchers painstakingly review the content of archival video footage to determine how objective and accurate the depictions are. What type of research is this?
 - a. Experiment
 - b. Survey
 - c. Content analysis
 - d. Secondary analysis

Answer: c. Content analysis

Objective: Conceptual

Page number: 3-9

Level: Intermediate

- 15. The United States census occurs every 10 years and aims to have each American household answer a series of questions. What type of research is this?
 - a. Experiment
 - b. Survey
 - c. Content analysis
 - d. Secondary analysis

Answer: b. Survey Objective: Conceptual

Page number: 3-9

Level: Intermediate

- 16. A social researcher is interested in studying patients' sense of spirituality to see if it correlates with how well they respond to treatment. She only reviews archival data previously collected in a scientific manner. What type of research is this?
 - a. Experiment
 - b. Survey
 - c. Content analysis
 - d. Secondary analysis

Answer: d. Secondary analysis

Objective: Conceptual

Page number: 3-9

Level: Intermediate

17. Statistics may be used for:

- a. description
- b. decision making
- c. both of the above
- d. none of the above

Answer: c. both of the above

Objective: Factual Page number: 18-23 Level: Basic

- 18. Which of the following is *not* true of the survey method?
 - a. Surveys often seek to reconstruct influences after they have occurred.
 - b. Surveys tend to be more representative than experiments.
 - c. Surveys establish cause and effect better than experiments.
 - d. Surveys usually measure but do not manipulate variables.

Answer: c. Surveys establish cause and effect better than experiments

Objective: Factual Page number: 4-5 Level: Basic

- 19. Which of the following is *not* a research strategy?
 - a. An experiment
 - b. A survey
 - c. Participant observation
 - d. Interval data

Answer: d. Interval data

Objective: Factual Page number: 3-9 Level: Basic

- 20. Joining a radical environmentalist group to understand group dynamics and gather data over time is an example of which research strategy?
 - a. An experiment
 - b. Meta-analysis
 - c. Participant observation
 - d. A survey

Answer: c. Participant observation

Objective: Conceptual

Page number: 3-9 Level: Basic

- 21. In which of the following research strategies is the independent variable manipulated?
 - a. An experiment
 - b. A survey
 - c. Participant observation
 - d. All of the above

Answer: a. An experiment

Objective: Factual Page number: 3-4 Level: Basic

22. In an experiment, the group not subject to experimental manipulation is called the

group.

- a. treatment
- b. independent
- c. random
- d. control

Answer: d. control
Objective: Factual
Page number: 3-4
Level: Basic

- 23. The concept of "mutually exclusive" means that:
 - a. there is a category for every case that arises.
 - b. there is an order to every set of numbers.
 - c. there is one, and only one, category for every case.
 - d. None of the above

Answer: c. there is one, and only one, category for every case

Objective: Factual Page number: 12 Level: Basic

- 24. "Exhaustive" means that:
 - a. there is a category for every case which arises.
 - b. there is an order to every set of numbers.
 - c. there is one, and only one, category for every case.
 - d. None of the above

Answer: a. there is a category for every case that arises

Objective: Factual Page number: 12 Level: Basic

- 25. Which of the following is not a requirement of the nominal scale of measurement?
 - a. The cases are mutually exclusive
 - b. The cases are mutually exhaustive
 - c. There are equal intervals between the cases
 - d. None of the above

Answer: c. There are equal intervals between the cases

Objective: Factual Page number: 12 Level: Basic

Chapter 1: True-False Questions

- 1. The survey method is used to manipulate the independent variable.
 - a. True
 - b. False

Answer: b. False
Objective: Factual
Page number: 4-5
Level: Basic

- 2. The dependent variable affects the independent variable.
 - a. True
 - b. False

Answer: b. False Objective: Factual

Page number: 2 Level: Basic

- 3. Variables measured at the nominal level only categorize or classify data.
 - a. True
 - b. False

Answer: a. True
Objective: Factual
Page number: 12
Level: Basic

- 4. In the experimental method, the independent variable(s) can be manipulated.
 - a. True
 - b. False

Answer: a. True Objective: Factual Page number: 3-4 Level: Basic

- 5. Variables measured at the interval level are assigned a score.
 - a. True
 - b. False

Answer: a. True
Objective: Factual
Page number: 13-15
Level: Basic

- 6. Variables measured at the interval level cannot be used to classify, categorize, or rank order data.
 - a. True
 - b. False

Answer: b. False

Objective: Factual Page number: 13-15 Level: Basic

- 7. Variables measured at the ordinal level cannot be used to classify or categorize data.
 - a. Trueb. False

Answer: b. False
Objective: Factual
Page number: 12-13
Level: Basic

- 8. Statistics cannot be used to describe.
 - a. True
 - b. False

Answer: b. False
Objective: Factual
Page number: 18-21
Level: Basic

- 9. Statistics are often used to make inferences about a population.
 - a. True
 - b. False

Answer: a. True
Objective: Factual
Page number: 21-24
Level: Basic

- 10. Meta-analysis is the process of combining the results obtained in a number of previous studies and subjecting them all to a single significance test.
 - a. True
 - b. False

Answer: a. True
Objective: Factual
Page number: 8-9
Level: Basic

- 11. Ordinal level data may be treated as interval if the ordered categories are evenly spaced.
 - a. True
 - b. False

Answer: a. True Objective: Factual Page number: 15-17 Level: Basic

Chapter 1: Work Questions

Instructions: classify the measurement type in each of the following examples as:

- a. Nominal
- b. Ordinal
- c. Interval/ratio

1. An individual's religious affiliation

Answer: a. Nominal Objective: Conceptual Page number: 12-15

Level: Intermediate

2. A person's occupation

Answer: a. Nominal Objective: Conceptual Page number: 12-15

Level: Intermediate

3. A person's IQ score

Answer: c. Interval/ratio Objective: Conceptual

Page number: 12-15

Level: Intermediate

4. A person's age in years

Answer: c. Interval/ratio Objective: Conceptual Page number: 12-15

Level: Intermediate

5. A person's hair shade (very light, light, medium, dark, very dark)

Answer: b. Ordinal Objective: Conceptual Page number: 12-15

Level: Intermediate

6. An individual's racial background

a. Nominal Answer: Objective: Conceptual

Page number: 12-15

Level: Intermediate

7. A person's hair color (red, brown, blonde, etc.)

Answer: a. Nominal Objective: Conceptual Page number: 12-15

Level: Intermediate

8. Someone's comprehension of another language (illiterate, read/speak somewhat, fluent)

Answer: b. Ordinal Objective: Conceptual Page number: 12-15

Level: Intermediate

9. A person's highest degree earned (lee than high-school, completed high-school, some college, etc.)

Answer: b. Ordinal Objective: Conceptual Page number: 12-15

Level: Intermediate

10. The number of children a person has

Answer: c. Interval/ratio Objective: Conceptual Page number: 12-15

Level: Intermediate

CHAPTER 2

Organizing the Data

Chapter 2: Multiple Choice Questions

- 1 When organizing a frequency table for a variable measured at the nominal level:
 - a. it matters how the categories are organized.
 - b. the table should have a title.
 - c. the categories do not have to be listed in any particular order.
 - d. b & c

Answer: d. b & c
Objective: Factual
Page number: 41
Level: Basic

- 2. When organizing a frequency table for a variable measured at the ordinal level:
 - a. categories may be arranged from lowest to highest
 - b. categories may be arranged from highest to lowest
 - c. the categories do not have to be listed in any particular order
 - d. a & b

Answer: d. a & b
Objective: Factual
Page number: 41
Level: Basic

- 3. When constructing class intervals, it is important to take into consideration:
 - a. the measurement level of the data one has.
 - b. the pattern within the data that one wants to reveal.
 - c. the number of variables one uses.
 - d. none of the above

Answer: b. the pattern within the data that one wants to reveal.

Objective: Conceptual

Page number: 45 Level: Basic

- 4. The _____ and the ____ are two of the most popular and useful methods of standardizing for size and comparing distributions.
 - a. proportion, median
 - b. percentage, midpoint
 - c. proportion, percentage
 - d. median, midpoint

Answer: c. proportion, percentage

Objective: Factual Page number: 37-38 Level: Basic

| _ | acy distribution, the cumulative percentage may be obtained by summing the stribution. |
|----------------------------|--|
| a. perc | |
| b. prop | = |
| c. rate | |
| d. ratio | |
| Answer: | |
| Objective: | Conceptual |
| Page number: | 46 |
| Level: | Basic |
| of drivers is an a. a per | on of the actual number of people who violate the speed limit to the total number n example of recentage opportion e |
| d. a rat | rio |
| Answer: | |
| Objective: | |
| Page number: | |
| Level: | Intermediate |
| 7. The categor order | ries oflevel distributions do not have to be listed in any particular |
| a. nom | inal |
| b. ordi | nal |
| c. inter | val |
| d. none | e of the above |
| Answer: | a. nominal |
| Objective: | conceptual |
| Page number: | |
| Level: | Intermediate |
| a. num b. num c. num | tive frequency is defined as the: ber of scores at any given value. ber of scores below any given value. ber of scores at or below any given score. ber of scores at or above any given value. |
| Answer: | c. number of scores at or below any given score. |
| Objective: | Factual |
| Page number: | 45 |
| Level: | Basic |
| | tive percentage is defined as the: entage of scores at a given value. |

- b. percentage of scores above a given value.
- c. proportion of scores at or below a given value.
- d. percentage of scores at or below a given value.

Answer: d. percentage of scores at or below a given value.

Objective: Factual Page number: 46
Level: Basic

- 10. If the independent variable is in the rows of a cross-tabulation and the dependent variable is in the columns, which percents do we use for comparisons?
 - a. Column
 - b. Row
 - c. Total
 - d. All of the above

Answer: a. Row
Objective: Conceptual
Page number: 57-58
Level: Basic

- 11. Which of the following is not a commonly used form of graphic representation?
 - a. Pie chart
 - b. Map
 - c. Line chart
 - d. Grouped frequency distribution

Answer: d. Grouped frequency distribution

Objective: Factual Page number: 61-70 Level: Basic

- 12. ______ typically are used to display continuous measures.
 - a. Pie charts
 - b. Bar graphs
 - c. Histograms
 - d. All of the above

Answer: c. Histograms

Objective: Factual Page number: 61-70 Level: Basic

- 13. Pie charts are particularly useful for what type of data?
 - a. Nominal level data
 - b. Ordinal level data
 - c. Interval level data
 - d. None of the above

Answer: a. Nominal level data

Objective: Factual

Page number: 61 Level: Basic

- 14. Kurtosis refers to:
 - a. the peakedness of a distribution.
 - b. the skewness of distribution.
 - c. the cumulative frequency of a distribution.
 - d. the symmetry of a distribution.

Answer: a. the peakedness of a distribution

Objective: Factual Page number: 67-69

Level: Intermediate

- 15. Skewness refers to:
 - a. the normal distribution of extreme scores.
 - b. the unequal distribution of extreme scores.
 - c. the central limit theorem.
 - d. None of the above.

Answer: b. the unequal distribution of extreme scores

Objective: Factual Page number: 67-69

Level: Intermediate

- 16. A symmetrical distribution that is extremely tall is
 - a. leptokurtic.
 - b. platykurtic.
 - c. mesokurtic.
 - d. skewed.

Answer: a. leptokurtic. Objective: Conceptual Page number: 67-69

Level: Intermediate

- 17. A distribution with a tail situated to the right is
 - a. negatively skewed.
 - b. positively skewed.
 - c. symmetrical.
 - d. a normal curve.

Answer: b. positively skewed.

Objective: Conceptual Page number: 67-69

Level: Intermediate

- 18. What is the upper limit of the class interval 80-89?
 - a. 80.5
 - b. 79.5

c. 88.5 d. 89.5

Answer: d. 89.5 Objective: Application Page number: 43-44

Level: Intermediate

- 19. What is the midpoint of the class interval 80-89?
 - a. 83 b. 84
 - c. 84.5
 - d. 83.5

Answer: c. 84.5 Objective: Application Page number: 44-45

Level: Intermediate

Chapter 2: True-False Questions

- 1. Nominal variables cannot logically be presented in a grouped frequency distribution.
 - a. True
 - b. False

Answer: a. True Objective: Factual Page number: 41 Level: Basic

- 2. Cumulative frequencies can only be used with variables measured at the ordinal or interval levels.
 - a. True

b. False

Answer: a. True Objective: Factual Page number: 45 Level: Basic

- 3. Class intervals are always equal in size.
 - a. True
 - b. False

Answer: b. False
Objective: Conceptual
Page number: 53-54
Level: Basic

- 4. A positively skewed distribution has extreme scores on the left.
 - a. True

| b. Fals | e |
|-------------------------|--|
| Answer: | b. False |
| Objective: | Conceptual |
| Page number: | 67-69 |
| Level: | Basic |
| 5. The upper la a. True | imit of a class interval is equal to its highest score. |
| b. Fals | e |
| Answer: | b. False |
| Objective: | • |
| Page number: | 43-44 |
| Level: | Basic |
| Chapter 2: Sh | nort Answer |
| 1. Rates comp | are the number of cases to the number of potential cases. |
| Answer: | actual |
| Objective: | |
| Page number: | |
| Level: | |
| 2. A proportio | n compares the of a variable to the total number of cases. |
| Answer: | frequency |
| Objective: | |
| Page number: | |
| Level: | |
| 3. A percentag | ge is based on a scale of |
| Answer: | 100 |
| Objective: | Factual |
| Page number: | |
| Level: | Basic |
| | ulation generally compares the outcomes of at least variables at the same |
| Answer: | two |
| Objective: | |
| Page number: | • |
| Level: | Basic |
| 5 | variables cannot logically be presented in a grouped frequency distribution. |

| Answer: | Nominal |
|-----------------|--|
| Objective: | Conceptual |
| Page number: | 41 |
| Level: | |
| 6. We call a no | ormal curve because folding it at the center creates two identical |
| halves. | |
| Answer: | symmetrical |
| Objective: | |
| Page number: | 67-69 |
| Level: | Intermediate |
| 7 | scores on one side of a distribution will cause skewness. |
| Answer: | Extreme |
| Objective: | |
| Page number: | 67-69 |
| Level: | Intermediate |
| 8. A | skewed distribution has its tail on the left. |
| Answer: | negatively |
| Objective: | Conceptual |
| Page number: | 67-69 |
| Level: | Intermediate |
| 9. A positively | skewed distribution has its tail on the |
| Answer: | right |
| Objective: | |
| Page number: | |
| Level: | Intermediate |
| 10. The terms | bar graph and are often used interchangeably though the latter has its |
| bars joined to | emphasize continuity. |
| Answer: | histogram |
| Objective: | Factual |
| Page number: | |
| Level: | |
| 11. A platykur | tic distribution tends to be very |

Answer:

flat

Objective: Conceptual Page number: 67-69

Level: Intermediate

Chapter 2: Work Questions

Instructions: Questions 1-3 refer to the following situation:

A national pollster prior to a presidential election determines that 16 states can be classified as Blue (democratic), 19 states as Red (republican), and 15 states as Purple (undecided).

1. What proportion of states are Blue?

Answer: 0.32

Objective: Computation

Page number: 37-38 Level: Basic

2. What percentage of the states are Red?

Answer: 38%

Objective: Computation

Page number: 37-38 Level: Basic

3. What percentage of the states are Blue and Purple?

Answer: 62%

Objective: Computation

Page number: 37-38 Level: Basic

Instructions: Questions 4-5 refer to the following situation:

Given the following frequency distribution:

| Score | f |
|-------|---|
| 20 | 1 |
| 19 | 2 |
| 18 | 4 |
| 17 | 1 |
| 15 | 1 |
| 12 | 3 |
| 8 | 2 |
| 4 | 1 |
| | |

4. What is the cumulative frequency of score 18?

Answer: 12

Objective: Computation

Page number: 44-47

Level: Intermediate

5. What is the cumulative percentage of score 18?

Answer: 80%

Objective: Computation

Page number: 44-47

Level: Intermediate

Instructions: Questions 6-8 refer to the following situation:

Given the following raw data:

| 1 | 5 | 9 |
|---|---|---|
| 3 | 1 | 5 |
| 7 | 4 | 5 |
| 2 | 6 | 6 |

6. Construct a frequency distribution.

Answer:

| Score | F |
|-----------------------|---|
| 9 | 1 |
| 7 | 1 |
| 6 | 2 |
| 5 | 3 |
| 4 | 1 |
| 6 5 4 3 2 | 1 |
| 2 | 1 |
| 1 | 2 |

Objective: Application Page number: 44-47

Level: Intermediate

7. Calculate the cumulative frequency for each score value.

Answer: 12, 11, 10, 8, 5, 4, 3, 2

Objective: Computation

Page number: 44-47

Level: Intermediate

8. Calculate the cumulative percentage of each score value

Answer: 100.0%, 91.6%, 83.3%, 66.7%, 41.7%, 33.3%, 25.0%, 16.7%

Objective: Computation

Page number: 44-47

Level: Intermediate

Instructions: Questions 9-11 refer to the following situation:

The incoming cohort of juveniles in a new diversion program consists of 80 males and 120 females. Of this cohort, 140 graduate early.

9. What is the proportion of male participation in the program?

Answer: 0.40

Objective: Computation

Page number: 38-40

Level: Intermediate

10. What is the early release rate?

Answer: 0.70

Objective: Computation

Page number: 38-40

Level: Intermediate

11. If the early release rate of the previous cohort was 60%, what is the early release rate of change?

Answer: 0.17

Objective: Computation

Page number: 38-40 Level: Difficult

Instructions: Questions 12-14 refer to the following situation:

Students majoring in political science and sociology are asked to report the average number of hours per week spent studying. The data are presented in the following crosstabulation.

| | Police Science major | Sociology major |
|----------------|----------------------|-----------------|
| Freshmen year | 20 | 20 |
| Sophomore year | 15 | 30 |
| Junior year | 25 | 30 |

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12. Calculate the total percents for each cell.

Answer: 10.8%, 10.8%, 21.6%, 8.1%, 16.2%, 24.3%, 13.5%, 16.2%, 29.7%, 16.2%, 8.1%,

24.3%, 48.6%, 51.4%, 100% Objective: Computation

Page number: 56-59

Level: Intermediate

13. Calculate the row percents.

Answer: 50%, 50%, 100%, 33.3%, 66.7%, 100%, 45.5%, 54.5%, 100%, 66.7%, 33.3%,

100%, 48.6%, 51.4%, 100% Objective: Computation

Page number: 56-59

Level: Intermediate

14. Calculate the column percents.

Answer: 22.2%, 21.1%, 21.6%, 16.7%, 31.6%, 24.3%, 27.8%, 31.6%, 29.7%, 33.3%,

15.8%, 24.3%, 100%, 100%, 100%

Objective: Computation

Page number: 56-59

Level: Intermediate