https://selldocx.com/products/test-bank-statistics-for-business-decision-making-and-analysis-3e-stine

Quiz A

Objectives:

- Organize data into a table with multiple variables (columns) and cases (rows).
- Read and interpret data tables.
- Distinguish categorical from numerical variables. Be aware that some categorical variables (ordinal) define an ordering of the cases.
- Recognize time series data.
- Identify when recoding or aggregating data are useful.
- Understand additional attributes of data.

The camping permit at a state park asks that the person who is registering supply the following: Date, Name, Group Size, and the Zip Code for the person filling out the permit. The park management maintains a data table that records this information for each person who registers.

Section 2.1 – Data Tables

[Objective: Organize data into a table with multiple variables (columns) and cases (rows).]

- 1. On a particular day, 27 persons filled out a permit application. How many rows will be in the data table for that day?
 - (a) 27
 - **(b)** 4
 - **(c)** 108
 - **(d)** 31
- 2. On a particular day, 27 persons filled out a permit application. How many columns will be in the data table for that day?
 - (a) 27
 - **(b)** 4
 - (c) 108
 - **(d)** 31

Section 2.2 - Categorical and Numerical Data

[Objective: Distinguish categorical from numerical variables. Be aware that some categorical variables (ordinal) define an ordering of the cases.]

3. Identify each piece of information by the type of variable it represents:

DATE

NAME

GROUP SIZE

ZIP CODE

Section 2.3 – Recoding and Aggregation

[Objective: Identify when recoding or aggregating data are useful.]

4. For a mid-summer report, the park manager decides to use the Zip Code to generate a column for the data table that is labeled "INSTATE" with categories "Yes" and "No." This column will identify the person registering as being from within the state or from a different state. This procedure is an example of data.

Chapter 2: Data (a) aggregating **(b)** recoding (c) time series (d) observing 5. At the end of the summer, the park manager creates a new data table using the information from each day's permit applications. The new data table consists of Date and the Total Number of Campers on that date. This is an example of the data, and generating results in data that are referred to as a (a) recoding; cross section (b) aggregating; cross section (c) recoding; time series (d) aggregating; time series Section 2.4 – Time Series [Objective: Recognize time series data.] The manager wishes to use the data table from question 4 to produce a graph showing the Total Number of Campers for each day of the summer. What type of graph is most appropriate for this data? (a) Bar graph **(b)** Time Series (c) Time plot (d) Histogram Section 2.2 – Categorical and Numerical Data [Objective: Distinguish categorical from numerical variables. Be aware that some categorical variables (ordinal) define an ordering of the cases.] 7. Each camper at the park is asked to fill out a survey which reads as follows: "We are interested in knowing your return status. Are you planning to return to this park for camping next summer? Circle the number corresponding to your response." Campers are also asked to supply their Zip Code. The camper will circle one of the **numbers** below, depending on their status.

NO UNLIKELY UNSURE LIKELY YES 1 2 3 4 5

The summary of the data from the responses consists of the "Zip Code," and the "Return Status" of the camper. What type of variable is "Return Status"?

- (a) Ordinal
- (b) Numerical
- (c) Categorical
- (d) Likert

Publishers track sales data from Amazon.com. Typical tracking variables include book purchased, date of purchase, form of purchase (hardback, paperback, ebook, used), rating of purchase, and any comments

Section 2.4 – Time Series

[Objective: Recognize time series data.]

- 8. From the information provided, give an example of two variables that would result in time series data.
- 9. From the information provided, give an example of two variables that would results in cross-sectional data.

Section 2.3 – Recoding and Aggregation

[Objective: Recognize time series data.]

- **10.** An author wants to look at the Amazon.com data pertaining to her book. She creates a table that includes form of purchase, the frequency of each form, and the total amount of purchase for each form. What is this an example of?
 - (a) Aggregating the data
 - **(b)** Recoding the data
 - (c) Observing the data
 - (d) Graphing the data

The owner of a shoe store records sales in a data table. Below is an excerpt from that table showing the activity of some of the store's regular customers for the past month.

Customer	Brand	Type	Size	Cost (\$)	
Bill	Merrell	Hiking	11	95	
Ann	ASICS	Running	8	59	
Josh	New Balance	Running	10	65	
Ann	Nine West	Pump	8	105	
Bill	Nike	Walking	10.5	79	

Section 2.1 – Data Tables

[Objective: Read and interpret data tables.]

- 11. In this month, how much did Ann spend?
 - (a) \$16
 - **(b)** \$59
 - (c) \$174
 - (d) \$164

12. (One	variable	in	this	data	table is	
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Section 2.5 – Further Attributes of Data

[Objective: Understand additional attributes of data.]

- 13. While on the Internet, you discover a data table that someone reproduced on their personal website. The data seems related to your own work. Before you incorporate the data into your work, what additional attribute of the data is the most important for you to determine?
 - (a) The name of the person that reproduced the data
 - **(b)** The time of day the data was posted
 - (c) The original source of the data
 - (d) Where the website is located

4 Chapter 2: Data

Answers:

- **1.** A
- **2.** B
- **3.** Date Ordinal; Name Categorical; Group Size Numerical; Zip Code Categorical
- 4. E
- **5.** D
- **6.** C
- 7. A
- **8.** Date of Purchase and an additional Variable (Answers will vary)
- **9.** Answers will vary.
- **10.** A
- **11.** D
- 12. Answers will vary. Correct answer is one of Customer, Brand, Type, Size, or Cost.
- **13.** C