

Quiz 1 Review Questions

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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question

1. The manager of a car dealership records the colors of automobiles on a used car lot. Identify the type of data collected.
 - a. quantitative
 - b. qualitative
2. Which data about paintings would not be qualitative?
 - a. the artist
 - b. the value
 - c. the style
 - d. the theme
3. The nominal scale of measurement has the properties of the
 - a. ordinal scale
 - b. only interval scale
 - c. ratio scale
 - d. None of these alternatives is correct.
4. Some hotels ask their guests to rate the hotel's services as excellent, very good, good, and poor. This is an example of the
 - a. ordinal scale
 - b. ratio scale
 - c. nominal scale
 - d. interval scale
5. The ratio scale of measurement has the properties of
 - a. only the ordinal scale
 - b. only the nominal scale
 - c. the rank scale
 - d. the interval scale
6. Temperature in Fahrenheit is an example of a variable that uses
 - a. the ratio scale

- b. the interval scale
 - c. the ordinal scale
 - d. either the ratio or the ordinal scale
7. The interval scale of measurement has the properties of the
- a. ratio and nominal scales
 - b. ratio and ordinal scales
 - c. ratio scale
 - d. None of these alternatives is correct.
8. Arithmetic operations are inappropriate for
- a. the ratio scale
 - b. the interval scale
 - c. both the ratio and interval scales
 - d. the nominal scale
9. Income is an example of a variable that uses the
- a. ratio scale
 - b. interval scale
 - c. nominal scale
 - d. ordinal scale
10. The scale of measurement that has an inherent zero value defined is the
- a. ratio scale
 - b. nominal scale
 - c. ordinal scale
 - d. interval scale
11. Quantitative data refers to data obtained with a(n)
- a. ordinal scale
 - b. nominal scale
 - c. either interval or ratio scale
 - d. only interval scale
12. The entities on which data are collected are
- a. elements
 - b. populations
 - c. samples
 - d. None of these alternatives is correct.
13. The set of measurements collected for a particular element is (are) called
- a. variables
 - b. observations

- c. samples
 - d. None of these alternatives is correct.
14. A characteristic of interest for the elements is called a(n)
- a. sample
 - b. data set
 - c. variable
 - d. None of these alternatives is correct.
15. Quantitative data
- a. are always nonnumeric
 - b. may be either numeric or nonnumeric
 - c. are always numeric
 - d. None of these alternatives is correct.
16. Qualitative data
- a. indicate either how much or how many
 - b. can not be numeric
 - c. are labels used to identify attributes of elements
 - d. must be nonnumeric
17. Social security numbers consist of numeric values. Therefore, social security is an example of
- a. a quantitative variable
 - b. either a quantitative or a qualitative variable
 - c. an exchange variable
 - d. a qualitative variable
18. How many scales of measurement exist?
- a. 1
 - b. 2
 - c. 3
 - d. 4
19. A frequency table displays the proportion of observations falling into each class.
- a. True
 - b. False
20. All class intervals in a histogram have the same width.
- a. True
 - b. False
21. A histogram can be constructed using either class frequencies or class relative frequencies as the heights of the bars.
- a. True

- b. False
22. A frequency distribution is a tabular summary of data showing the
- a. fraction of items in several classes
 - b. percentage of items in several classes
 - c. relative percentage of items in several classes
 - d. number of items in several classes

PROBLEM

1. Below you are given the examination scores of 20 students.

52	99	92	86	84
63	72	76	95	88
92	58	65	79	80
90	75	74	56	99

- a. Construct a grouped frequency distribution, relative frequency distribution, cumulative frequency distribution and cumulative relative frequency distribution for this data. Use the methods you learnt in class.
- b. Draw the relevant diagrams for frequency distribution and cumulative frequency distribution.

(extra space)