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Classification of variables and levels of measurement

QUESTION

For each of the variables described below, indicate whether it is a quantitative or a categorical (qualitative) variable. Also, indicate the level of measurement for the variable: nominal, ordinal, interval, or ratio. Make sure your responses are the most specific possible.

Variable	Type of variable	Level of measurement
(a) Anxiety rating (highly anxious, moderately anxious, or relaxed)	☐ Quantitative ☒ Categorical	☐ Nominal ☒ Ordinal ☐ Interval ☐ Ratio
(b) Temperature (in degrees Celsius)	☒ Quantitative ☐ Categorical	☐ Nominal ☐ Ordinal ☐ Interval ☒ Ratio
(c) Native language	☐ Quantitative ☒ Categorical	☒ Nominal ☐ Ordinal ☐ Interval ☐ Ratio

Separate into different categories
you can put them in order

you can add/subtract : it makes sense
0 does mean something

Separate into different languages (categories)
You cannot put in order

Problem

Explanation

Show Another

Choosing an appropriate method for gathering data: Problem type 2

QUESTION

A political campaign wants to estimate the number of adult residents who voted in the last city election. Answer the following.

(a) Which of the following surveys probably would best represent the entire adult population of the city?

☒ 25 adult residents are randomly selected from the city; 10 voted in the last election.

☐ 25 senior residents are randomly selected; 11 voted in the last election.

☐ 25 homeowners are randomly selected; 13 voted in the last election.

(b) There are 22,900 adults who live in the city. Using your answer from part (a), estimate the number of adults who voted in the last city election.

adults

$$\frac{10}{25} = \frac{x}{22,900}$$
$$\frac{15x}{25} = \frac{229,000}{25}$$
$$x = 9,160$$

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