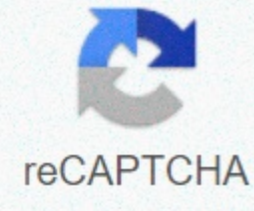




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Categorical vs quantitative quiz

Learning outcomes Distinguish between quantitative and categorical variables in context. The data consists of individuals and variables that provide us with information about these individuals. An individual can be an object or a person. A variable is an attribute, such as a measurement or label. This dataset is from a medical study. In this study, the researchers wanted to identify variables associated with low birth weight. Age in childbirth Weight before pregnancy (pounds) Smoker The doctor visits during the 1st week of pregnancy. Patient 3 36 175 No. 0 African American 3600 * Patient 189 30 95 Yes 2 Asian 3147 In this example, individuals are patients (mothers). There are six variables in this data set: Mother's age at birth (years) Mother's pre-pregnancy weight (pounds) Whether the mother smoked during pregnancy (yes, no) Number of doctor visits during the first trimester of pregnancy Mother's race (Caucasian, African American, Asian, etc.) Birth weight of the baby (grams) There are two types of variables: quantitative and categorical. Categorical variables take the values of categories or designations and place an individual in one of several groups. Each observation may be classified in only one category and categories shall be mutually exclusive. In our example of medical records, smoking is a categorical variable with two groups, since each participant can only be categorized as a non-smoker or smoker. Gender and race are the other two categorical variables in our example of medical records. Quantitative variables have numerical values and represent a certain type of measurement. In our medical example, age is an example of a quantitative variable because it can have multiple numerical values. It also makes sense to think about it in numerical form; this means that the person may be 18 or 80 years old. Weight and height are also examples of quantitative variables. We took a random sample from the 2000 U.S. Census. Here's part of the dataset. Consumer Reports analyzed a set of data on 77 breakfast cereals. Here's part of the dataset. (Note: Consumer Reports is a nonprofit organization that evaluates products to help consumers make informed choices.) In order to continue to enjoy our site, we ask you to confirm your identity as a person. Thank you very much for your cooperation. Home Chapter 14 Quick quiz If you want to take a longer quiz, select Explore Questions on the navigation bar. This activity contains 5 questions. The answering options in this exercise appear in a different order each time the page loads. According to consumer dummies When working with statistics, it is important to understand some of the terminology used, including quantitative and categorical variables, and their differ. The trick is to get the handle on right from the get-go, so when it comes time to work with problems, you will pick up the stimuli from the wording and go in the right direction. Quantitative variables Quantitative variables are measured and expressed numerically, have numerical meanings and can be used in calculations. (That's why another name for them is numeric variables.) Although zip codes are written in numbers, numbers are simply convenient labels and do not have numerical meanings (for example, you would not add two zip codes). Categorical

variables A categorical variable has no numeric or quantitative meaning, but simply describes the quality or characteristics of something. The numbers used in the categorical or qualitative data indicate the quality rather than the measurement or quantity. For example, you can assign number 1 to a person who is married and number 2 to a person who is not married. The numbers themselves don't make sense - that is, you wouldn't count the numbers together. Sample questions Which of the following steps is an example of a quantitative variable (also known as a numeric variable)? A) car colour (B) State of residence of person (C) person's postal code (D) The amount of the person recorded in inches (E) Choices (C) and (D) Answer: D. amount of person recorded in inches Which of the following is an example of a categorical variable (also known as a qualitative variable)? A) years of school leaving (B) university graduate (C) secondary school graduate or not (D) annual income (in dollars) (E) Elections (B) and (C) Answer: E. Choices (B) and (C) (college, secondary school graduate or not) University degree (such as English or mathematics) and secondary school graduate (yes or no) describe non-numbered characteristics. If you need more practice on this and other topics from your statistical course, visit 1,001 Statistics Practice Problems for Dummies to Buy Online Access to 1001 Statistics Practice Problems! We'll help you track your performance, find out where you need to study, and create customized sets of problems to handle your statistics. Skills.

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