

MATH 110 Statistics Module 6 test exam (100% Correct Answers) Portage Learning

descriptive statistics - ✓✓ANSW✓✓..👉 a compiled summary of the data analysis (tabular, graphical, or numerical forms) (uses numerical and graphical methods to explore data, look at patterns, summarize info, present info)

inferential statistics - ✓✓ANSW✓✓..👉 the use of a sample to make decisions about a population

population - ✓✓ANSW✓✓..👉 the entire number of items in a large group

sample - ✓✓ANSW✓✓..👉 a smaller representative group from the population

qualitative data - ✓✓ANSW✓✓..👉 observations classified into a group of categories, not on a numerical scale (can be numerical or categorical). Examples are age, gender)

quantitative data - ✓✓ANSW✓✓..👉 measurements recorded on a naturally occurring numerical scale (# of children, grade pt average, bank account amount, temperature)

t/f: math operations only make sense on quantitative data - ✓✓ANSW✓✓..👉true

what are the two types of data collection - ✓✓ANSW✓✓..👉cross-sectional and time series

what type of data collection is where data is collected at the same or approximately the same point in time, such as a lap time in race or average GPA of one semester of students? - ✓✓ANSW✓✓..👉Cross-sectional data

what type of data is collected over several time periods, such as the average price/gallon of gas over a decade? - ✓✓ANSW✓✓..👉time series data

t/f: the most commonly used numerical statistic is called the average/mean - ✓✓ANSW✓✓..👉true

statistical inference - ✓✓ANSW✓✓..👉uses sample data to make estimates, decisions, predictions or other generalizations about a larger set of data or population

where do you find data (2 options) - ✓✓ANSW✓✓..👉existing info or direct collection

statistics - ✓✓ANSW✓✓..👉science of data: collecting, classifying, summarizing, organizing, analyzing, and interpreting info

data - ✓✓ANSW✓✓..👉things about which info can be collected and analyzed

data set - ✓✓ANSW✓✓..👉an arranged collection of info that contains the various categories of data collected for a specific study

element - ✓✓ANSW✓✓..👉the individual and unique entry in a data set about which data has been collected, analyzed, and presented in the same manner

variable - ✓✓ANSW✓✓..👉a particular, measurable attribute that the researcher believes is needed to describe the element in their study

observation - ✓✓ANSW✓✓..👉 all the info collected for each element in a study

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what are the two forms of direct collection for statistical studies - ✓✓ANSW✓✓..👉 experimental and observational (active/passive)

what type of statistical study is this?

researcher reviews a situation, identifies variables that influence the elements in the study, and manipulate some variables and keep others constant to compare the elements to each other and understand the influence of the variables on the element - ✓✓ANSW✓✓..👉 experimental studies (statistical studies, direct collection)

what type of statistical study is this?

collects info, doesn't manipulate variables, but observes them in action either passively (strictly observation) or actively (questionnaires, surveys) - ✓✓ANSW✓✓..👉 observational studies (statistical studies, direct collection)

outliers - ✓✓ANSW✓✓..👉 when a value for a variable is out of place

In many cases, _____ can have a greater impact on research than _____ - ✓✓ANSW✓✓..👉 data errors, omitted data

histogram - ✓✓ANSW✓✓..👉 summary count of items in each category in a single variable (tabular or graphical view)

mean/average - ✓✓ANSW✓✓..👉 a measure to determine a central value/location from data used