

AP Stats

Chap 1 Review

Name _____ Pd _____

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

Identify the W's for the description of data.

1. A survey of bicycles parked outside college dormitories at a small university recorded the style (mountain bike, ten speed, etc.), the brand, the color, and the age. 1. _____
 - A. Who: College dormitories.; Cases: Each dormitory is a case; What: Type of dormitory; When Not specified; Where: A small university; Why: Not specified; How: A survey was taken outside college dormitories.
 - B. Who: Bicycles parked at college dormitories.; Cases: Each bicycle is a case; What: Mountain bikes, ten speeds; When: Not specified; Where: A small university; Why: Not specified; How: Students were asked about the bicycle they ride.
 - C. Who: Bicycles parked on campus; Cases: Each bicycle is a case; What: Style, brand, color, and age of bicycle; When: Not specified; Where: A small university; Why: Class Assignment; How: A survey was taken outside classrooms.
 - D. Who: Bicycles parked at college dormitories.; Cases: Each bicycle is a case; What: Style, brand, color, and age of bicycle; When: Not specified; Where: A small university; Why: Not specified; How: A survey was taken outside college dormitories.
 - E. Who: College dormitories.; Cases: Each dormitory is a case; What: Size of dormitory; When During fall quarter; Where: A small university; Why: Not specified; How: A survey was taken outside college dormitories.

2. The State Athletic Association requires coaches to keep these records on all athletes: age, days absent, medical history, emergency contact, and any allergies the athlete may have. 2. _____
 - A. Who: Athletes; Cases: Each athlete is an individual case; What: Years played, sport played, and position played; When: Current; Where: Not specified; Why: State requirement; How: Information is collected and stored as athletic records.
 - B. Who: Athletes; Cases: Each athlete is an individual case; What: Age, days absent, medical history, emergency contact, and allergy history; When: Current; Where: Not specified; Why: State requirement; How: Information is collected and stored as athletic records.
 - C. Who: Athletes; Cases: Each athlete is an individual case; What: Records; When: Current; Where: Not specified; Why: Helpful information; How: Ask the athlete.
 - D. Who: Coaches; Cases: Each team is an individual case; What: Age, days absent, medical history, emergency contact, and allergy history; When: Current; Where: Not specified; Why: State requirement; How: Information is collected and stored as athletic records.
 - E. Who: State Athletic Association; Cases: Each athlete is an individual case; What: Records; When: Current; Where: Not specified; Why: State requirement; How: Information is collected and stored as athletic records.

Name the variables in each description of data, then tell whether they are quantitative or categorical. For each quantitative variable name its unit of measure.

3. A fortune 500 company concerned about the retirement investments made by its employees, collected the following data: age of employee, amount contributed monthly, and type of contribution (401(k), Roth IRA, etc.). 3. _____
- A. Age of employee, quantitative, years; amount contributed monthly, quantitative, dollars; type of contribution, categorical.
 - B. Age of employee, quantitative, years; amount contributed monthly, categorical; type of contribution, categorical;
 - C. Age of employee, quantitative, years; amount contributed monthly, quantitative, dollars.
 - D. Age of employee, quantitative, years; amount contributed monthly, quantitative, dollars; type of contribution, categorical; fortune 500 companies, categorical.
 - E. Age of employee, quantitative, years; amount contributed monthly, quantitative, dollars; type of contribution, quantitative, dollars.
4. A California hospital concerned about the rising number of low birth weight babies collected data from 300 births over a five year time span. The recorded the mother's age, the mother's prepregnancy weight, the level of prenatal care (none, minimal, adequate), and whether the mother used drugs during pregnancy (cigarettes, alcohol, etc.). 4. _____
- A. Mother's age, quantitative, years; mother's prepregnancy weight, quantitative, pounds; level of prenatal care, categorical; mother's drug use, quantitative, weeks.
 - B. Mother's age, quantitative, years; mother's prepregnancy weight, quantitative, pounds.
 - C. Mother's age, quantitative, years; mother's prepregnancy weight, categorical; level of prenatal care, categorical; mother's drug use, categorical.
 - D. Mother's age, quantitative, years; mother's prepregnancy weight, quantitative, pounds; level of prenatal care, categorical.
 - E. Mother's age, quantitative, years; mother's prepregnancy weight, quantitative, pounds; level of prenatal care, categorical; mother's drug use, categorical.

Classify the variable as categorical or quantitative.

5. The number of people on a jury 5. _____
- A. Categorical B. Quantitative
6. The verdict of a jury 6. _____
- A. Categorical B. Quantitative

Provide an appropriate response.

7. School administrators collect data on students attending the school. Which of the following variables is quantitative? 7. _____
- A. class (freshman, soph., junior, senior)
 - B. whether the student has taken the SAT
 - C. whether the student is in AP classes
 - D. grade point average
 - E. none of these

Answer Key

Testname: CHAP 1 REVIEW

1. D
2. B
3. A
4. E
5. B
6. A
7. D