Chapter One TEST REVIEW

I. Determine the level of measurement. (Nominal, Ordinal, Interval, Ratio)
1. Cars described as compact, midsize, and full-size.
2. Colors of M&M candies.
3. Weights of M&M candies
4. Types of markers (washable, permanent, etc.)
5. Time it takes to sing the National Anthem
6. Total annual income for statistics students
7. Body temperatures of bears in the north pole
8. Teachers being rated as superior, above average, average, below average, or poor

II. Identify as Qualitative or Quantitative. If it is quantitative, tell if it is discrete or continuous.
10. Hair color of the math teachers at PHS
11. The number of people that prefer Pepsi over Coke
12. The weight of your sister’s car (in pounds)
13. The number of criminal indictments against Michael Vick
14. The length of his jail sentence
15. Your telephone area code
16. How fast you were going when you were pulled over for speeding down Main Street (in MPH)
17. The way you felt when you were pulled over for speeding down Main Street

III. Label each as descriptive or inferential.
18. The highest batting average for one season (so far) is 0.438. (Achieved by Hugh Duffy in 1894.)
19. Last year’s homicide rate was 9.2 persons per 100,000 US residents.
20. Sixty-two percent of last year’s high school graduates are now enrolled in a college or university.
21. Results of the US census conducted every 10 years
22. A recent study found that eating garlic has a 15% chance of lowering blood pressure.
23. It is predicted that the average number of automobiles each household owns will increase next year.
24. The chance that a person will be robbed in Greenville, NC is 15%.
25. Last year’s total attendance at Long Run High School’s football games was 8,235.

IV. Write the correct term for the definition provided below.
26. A characteristic that can assume different values
27. Collecting, organizing, analyzing, and drawing conclusions based on data
28. The values a variable can assume
29. The entire group to be studied
30. A subgroup of the entire group to be studied (the smaller group out of the big group)

V. Classify each sample as random, systematic, cluster, convenience, or stratified.
31. In a large school district, all teachers from two buildings are interviewed to determine whether they believe the students have less homework to do now than in previous years.
32. Every seventh customer entering a shopping mall is asked to select his/her favorite store.
33. Nursing supervisors are selected using random numbers in order to determine annual salaries.
34. Every 100th hamburger manufactured is checked to determine its fat content.
35. Mail carriers of a large city are divided into four groups according to gender and according to whether they walk or ride on their routes. The 10 are selected from each group and interviewed to determine whether they have been bitten by a dog in the last year.
I. Determine the level of measurement. (Nominal, Ordinal, Interval, Ratio)
1. Cars described as compact, midsize, and full-size. ordinal
2. Colors of M&M candies. nominal
3. Weights of M&M candies ratio
4. types of markers (washable, permanent, etc.) nominal
5. time it takes to sing the National Anthem ratio
6. total annual income for statistics students ratio
7. body temperatures of bears in the north pole interval
8. teachers being rated as superior, above average, average, below average, or poor ordinal

II. Identify as Qualitative or Quantitative. If it is quantitative, tell if it is discrete or continuous.
10. hair color of the math teachers at PHS qualitative
11. the number of people that prefer Pepsi over Coke quantitative discrete
12. the weight of your sister’s car (in pounds) quantitative continuous
13. the number of criminal indictments against Michael Vick quantitative discrete
14. the length of his jail sentence quantitative continuous
15. your telephone area code qualitative
16. how fast you were going when you were pulled over for speeding down Main Street (in MPH) quantitative continuous
17. the way you felt when you were pulled over for speeding down Main Street qualitative

III. Label each as descriptive or inferential. Answers at the bottom of this section
18. The highest batting average for one season (so far) is 0.438. (Achieved by Hugh Duffy in 1894.)
19. Last year’s homicide rate was 9.2 persons per 100,000 US residents.
20. Sixty-two percent of last year’s high school graduates are now enrolled in a college or university.
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25. Last year’s total attendance at Long Run High School’s football games was 8,235.

#18, 19, 20, 21, and 25 are descriptive; #22, 23, 24 are inferential

IV. Write the correct term for the definition provided below.
26. A characteristic that can assume different values variable
27. Collecting, organizing, analyzing, and drawing conclusions based on data statistics
28. The values a variable can assume data
29. The entire group to be studied population
30. A subgroup of the entire group to be studied (the smaller group out of the big group) sample

V. Classify each sample as random, systematic, cluster, convenience, or stratified.
31. In a large school district, all teachers from two buildings are interviewed to determine whether they believe the students have less homework to do now than in previous years. cluster
32. Every seventh customer entering a shopping mall is asked to select his/her favorite store. systematic
33. Nursing supervisors are selected using random numbers in order to determine annual salaries. random
34. Every 100th hamburger manufactured is checked to determine its fat content. systematic
35. Mail carriers of a large city are divided into four groups according to gender and according to whether they walk or ride on their routes. The 10 are selected from each group and interviewed to determine whether they have been bitten by a dog in the last year. stratified