

CHAPTER 1 EXERCISE

WHAT IS STATISTICS?

Name Kevin Reese Section _____ Score _____

Part I Classify the following sets of data as qualitative or quantitative.

- Qualitative 1. The religious affiliations of college students
- Quantitative 2. The height of each member of a basketball team
- Quantitative 3. Students' scores on the first statistics exam
- Qualitative 4. The color of new SUV's on a car lot
- Qualitative 5. The Olympic track and field world records, such as the time for the steeplechase.

Part II Classify the following sets of data as continuous or discrete.

- Discrete 6. The number of students enrolled in an accounting class
- Discrete 7. The number of General Electric microwaves sold by Home Depot last month
- Continuous 8. The acceleration time of an automobile
- Continuous 9. The temperature of a refrigerator
- Discrete 10. The number of people aboard a commercial airplane

Part III Identify the measurement scale as nominal, ordinal, interval, or ratio for each of the following.

- interval 11. student IQ ratings
- interval 12. distance students travel to class
- ratio 13. the jersey numbers of a sorority soccer team
- nominal 14. a classification of students by state of birth
- ordinal 15. a ranking of student as freshman, sophomore, junior, and senior
- Ratio 16. number of hours students study per week

- _____ **nominal** _____ 17. the number of papers sold each Sunday during 2020
- _____ **nominal** _____ 18. the color of the students' hair in your statistics class
- _____ **ordinal** _____ 19. Scholastic Aptitude Test (S.A.T.) scores for incoming freshmen
- _____ **nominal** _____ 20. the departments, such as editorial, advertising, sports, etc