Gender Political Party KEY

Instructions: Show all work on paper and attached work sheets to this cover page. If you use a calculator to perform the operations (where problems do not instruct you to complete them by hand), say which steps/commands were used to count as work. Give exact answers where possible. In other cases, round dollars to pennies. All other situations, follow standard rounding rules for means and standard deviations, or round to 4 places unless instructed otherwise in the problem.

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Variable	Scale/Levels	Basic Operations	Permissible Statistics
Numeric Categorical Continuous Discrete Ordinal Nominal	Nominal	Determination of Equality	Number of cases Mode
	Ordinal	Determination of greater or less (rank)	Median Percentiles
	Interval	Determination of equality of intervals	Mean Standard Deviation
1. Complete the table below to categorize each of the variables. The charts and table above	Ratio	Determination of equality of ratios	Coefficient of variation

may be of some help. Check the appropriate box. Variable Categorical Quantitative Discrete Continuous Nominal **Ordinal** Interval Ratio Test V (Quant) V (Grount) Grade percent V(Car) Country Year Volume Cost **Produce** Purpose Latitude Rainfall

- 2. Describe how you can tell the difference between a quantitative and a qualitative variable.
- 3. Describe how you can tell the difference between an interval level of measurement and a ratio level of measurement.
- 4. Describe how you can tell the difference between a discrete and continuous variable.
- 5. Why is your credit card number not a quantitative variable, even though it's a number?
- 6. Describe three variables at each level of measurement that you might want to measure for an elementary school student.

- 2 If the result is not a number, it is qualitative. If it is a #, one test you can do is determine if the average (mean) is meanineful. If it is not, its qualitative. (answers may vary)
 - 3. Calculate the vatio and determine if the vatio is meaningful.
 eg. for GPA is 4.0 "twice as good" as 2.0? Is a temp of 60°
 Twice as warm" as 30°? The answer in both cases is "no", so these
 are interval measures.
- 4. Can the number be expressed as fractions or decemials? Then if yes, call it continuous If fractional pieces are meaningless (like # 9 Things/people) then it is discrete.
- 5. It toes not mean anything to average credit count & . Your card number is a pointer to you and you are not at .
- 6. nominal gender sethnicity, School attended (answers will rang)

 Ordenal rank in class, letter grade on an exam, buth order

 interval GPA, IQ, body temperature

 ratio height, weight, age