I . Short Review

1. Level of measurement (Variables)

- Discrete (Categorical or Qualitative)

Nominal : The categories have no intrinsic order. ex) Religion
Ordinal : The categories have an intrinsic order. ex) good, better, best

- Continuous (Quantitative)

Ratio : Having true zero -> makes the ratio meaningful. ex) twice income
Interval : the zero point is arbitrary. ex) thermometer.
2. Dependent and Independent
3. Measure of Central Tendency

- Mode : most frequently occurring single value ; Nominal, Ordinal, Interval, Ratio
- Median ( 50 percentile): the value of the middle observation. (not sensitive to extreme values) ; Ordinal, Interval, Ratio (* odd and even)

$$
\frac{\mathrm{N}+1}{2}
$$

- (Arithmetic)Mean ( $\mu$ or $\overline{\mathrm{X}}$ ): $\frac{\sum \mathrm{X}}{\mathrm{N}} \quad$; Interval, Ratio

ㅍ. STATA

- Data file : ${ }^{* *}$.dta
- Stata Window : Main window, Review window, and variable window.
- Recommend using "Do" file.
- Important command : "describe", "Summarize", "Tabulate" "Label list", and "Help"

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III. Problems

Find which level of measurement, median, mode, and mean

1) the result of asking 30 people how many brothers and sisters they had 211201032011512221130240021012
2) The result of asking Social class $(1=$ low, $2=$ middle, $3=$ high $)$

121231122232221313122132121232
3) The result of marital status $(1=$ single, $2=$ married, $3=$ divorce $)$

331111122232121223223121113321

