Levels of Measurement: Examples

Three Questions

1. Do numerals represent amounts? No
   Yes | Nominal
2. Do equal intervals between numerals represent equal ordinal amounts?
   Yes | No
3. Does the numeral zero represent an absolute zero? Yes
   No | Interval
   Ratio

Apartment Occupancy

Values assumed by apartment occupancy are
\{Y|Y = 0, 1, 2, 3, 4, 5, 6, \ldots\}

where

\ Y\ refers\ to\ number\ of\ residents\ in\ an\ apartment.
**Change in Caseload Size**

Values assumed by Change in Caseload are \( \{Y_D|Y_D = \ldots, -3, -2, -1, 0, +1, +2, +3, \ldots \} \)

where

- \( Y_D \) refers to change in number of cases between January and April, \( Y_D = Y_4 - Y_1 \).
- \( Y_1 \) refers to number of cases in January.
- \( Y_4 \) refers to number of cases in April.

**Coping Skills**

Values assumed by Coping Skills are

1. Inadequate
2. Marginal
3. Adequate
4. More than adequate

**Religious Identification**

Values assumed by Religious Identification are

1. Agnostic/Atheist
2. Buddhist
3. Christian
4. Jewish
5. Muslim
6. Other
Educational Attainment

Values assumed by Educational Attainment are

K–5 (kindergarten through 5th grade)
6–8 (6th through 8th grade)
9–12 (9th through 12th grade)