

Charles Hwang – CJC 206-001

Homework 01 Levels of measurement

To complete this assignment, answer the following questions. You may use the decision tree and class notes for review.

Determine what level of measurement the following types of data are. They can only be one type. Provide a brief (1-2 sentence) explanation of why you chose your answer. Pay attention to the **bold text** inside the brackets [] as this indicates the possible values this variable may have. TAKE YOUR TIME AND THINK ABOUT THE POSSIBLE LEVELS OF MEASUREMENT.

Each question is worth 4 points total (1 points per answer). The whole assignment is worth 16 points.

1. Number of prior incarcerations [0,1,2,3,...15]	Level of measurement:	Ratio data
Explanation	The number of prior incarcerations has an absolute zero. Additionally, there are equal distances between each value and the differences between values are a ratio.	
Is it categorical?	No	
Is it discrete or continuous?	Discrete	

2. Music preference [rock, rap, heavy metal, bluegrass, house, R&B, country, chillhop]	Level of measurement:	Nominal data
Explanation	There is no way to count music preference. Additionally, the values only vary in characteristics and have different categories.	
Is it categorical?	Yes	
Is it discrete or continuous?	N/A – not quantitative	

3. Level of satisfaction with your purchase [1 (highly unsatisfied), 2, 3, 4, 5 (highly satisfied)]	Level of measurement:	Ordinal data
Explanation	The values can be ordered. They are different than each other, but it is not known by how much.	
Is it categorical?	Yes	
Is it discrete or continuous?	Discrete	

4. Year of arrest [1996, 1997, 1998,...2011]	Level of measurement:	Interval data
Explanation	There are equal distances between each value. However, the difference between values are not a ratio.	
Is it categorical?	No	
Is it discrete or continuous?	Discrete	

