

Part I of the



The Bare Bones Guide to Free Introductory Statistics Resources ~



~Levels/Scales of Measurement~

Let's get metaphorical~ variables are the raw ingredients for recipes (tests) and require different assumptions (cooking equipment) for their effective use. We use different ingredients for different recipes.

For example, I can't make a sponge cake without eggs and flour.

So, getting to know the four levels/scales of measurement of variables (ingredients) is going to help me to know what tests (recipes) and assumptions (equipment) I can use.

N.B.₁ These concepts are not set in stone. A lot of debate exists about what makes a variable ordinal or nominal, or interval and ratio. Focus on the definition delivered in your class, and keep in mind that there is not a consensus on the definitions. You can read more about the debates [here](#)

N.B.₂ Your class might only refer to two levels/scales of measurement: metric/numerical and categorical. I suggest you not focus on material that your class doesn't use at this time.

✂ Learning Resources

[Defining Categorical and Metric Variables](#)

StatsCats (2014)

[Interval vs Ratio Data](#)

Scott Crawford (2014)

[Levels of Measurement](#)

Dr. B. (2018)

[Mean Median and Mode: Understanding and Calculating Measures of Central Tendency](#)

NurseKillam (2014)

[Nature of Data Levels of measurement and types](#)

Ch-03 Social Science-I (2018)

[Scale of Measurement](#)

Vmouonline: Dr R R Singh (2013)

[Statistics: Levels of Measurement](#)

Emporium Mathematics (2018)

[The Mean, Median and Mode Tools](#)

TheAnimatedClassroom (2012)

[Types of Data: Nominal, Ordinal, Interval/Ratio - Statistics Help](#)

Statistics Learning Centre (2011)

[Unit 03 - VIDEO - Levels of Measurement](#)

Prof. Nikki Hozack (2014)

[What is a Categorical Variable?](#)

Stephanie Glen (2015)

Practice Your Skills

Use these practice questions to review your learning. As always, pay attention to questions that are relevant to your class notes or readings. Be sure to note your scores, so you have data to analyse as you retest yourself each week!

[Levels of Measurement](#)

Quizlet (2018)

[Practice Exercises for Scales of Measurement](#)

Emory University (2017)

[Research Methods - 2.3. Scales of Measurement](#)

synap (2018)

[Scales of Measurement \(scroll to last section\)](#)

Graziano and Raulin (2007)

✂ Apply Your Knowledge

Use examples from your day-to-day life or uni/college and modify the examples here. Identify the level/scale of measurement you are collecting data on. You can use this data to further practice class/tutorial/text exercises.

[6 Awesome Bullet Journal time Trackers](#)

Sheena of the Journal (2017)

[Bullet Journal Habit Tracking](#)

it's sarah ann (2018)

[Data & Graphing](#)

Pinterest (2018)

[Habit Tracker Ideas](#)

Pinterest (2018)



[Leaf Investigation Printable Worksheet](#)

Little Giraffe Teaching Ideas (1997-2015)

[Data Collection](#)

Learning Support Services (2018)

[Pop-Up Bar Graphs](#)

Runde's Room (2015)

I hope you found this Level/Scales of Measurement learning resource to be helpful. Remember you can join the conversation on the [Bare Bones Forum](#), and access more bounty there, such as a **25% discount** on selected products and services.

Meanwhile, you can keep up-to-date with [Psych n Stats Tutor](#) news, views, rips and reviews on my Facebook page [here](#).

If you can make the time to leave feedback on this resource, I gratefully appreciate it!

