SHS LEARNING ACTIVITY

Name: #40a **Score/Mark:**
Grade and Section: **Date:**
Strand: ☐ STEM ☐ ABM ☐ HUMSS ☐ ICT (*TVL Track*)
Subject: *Practical Research 2*
Type of Activity ☐ Concept Notes ☐ Skills: Exercise / Drill ☐ Illustration ☐ Laboratory Report ☐ Essay/Task Report ☐ Others: _____

Activity Title: Frequency Distributions (part 1) - Frequency Tables
Learning Target: To define and discuss frequency distributions and tables
References: *(Author, Title, Pages)*
(1) Essentials of Statistics for Behavioral Sciences, pp. 30-37
(2) M.C. Fabella (workshop notes on "Research Collaborative Methods")

Frequency Distribution is a very commonly used descriptive statistic. From a disorganized set of raw data, it sorts numbers and groups them together according to categories within an appropriate scale of measurement. Frequency distribution practically means counting the numbers belonging to a certain category. Frequency distribution can be structured as **frequency tables** or graphs, showing the frequency or the number of times (or *n*) data occurs in each category. The following are examples of frequency tables.

Examples:

1. The following set of *n* = 20 scores was obtained from a 10-point quiz: 8, 9, 8, 7, 10, 9, 6, 4, 9, 8, 7, 8, 10, 9, 8, 6, 9, 7, 8, and 8. The highest score is 10 and the lowest is 4. The first column of the table lists the scores in an interval scale of measurement (*X* values) from 10 down to 4. All possible values are listed in the frequency distribution table. The frequency associated with each score is recorded in the second column. Two students had scores of *X* = 6, and one *X* = 4. As you can see, no one got a score of *X* = 5, but this value is included.

X	*f*
10	2
9	5
8	7
7	3
6	2
5	0
4	1

2. A random sample of 200 people aged 21-35 is selected to determine if there is any relationship between an individual's age and his/her following of the safety protocol to wear a face mask outside of the home during the COVID-19 crisis. The following were the findings:

Age Group	Complied	Did not Comply	Undetermined
21-25	26	16	58
26-30	4	2	34
31-35	30	2	28

Exercise: What scale of measurement was used in Example #2?