**INTRODUCTION AND OVERVIEW OF DATA 100%**

1. Data wherein we can perform arithmetic operations
   * Quantitative Data
2. It encompasses the set of techniques that describes what has happened in the past
   * Descriptive Analytics
3. What are the three categories of analytical methods?
   * Prescriptive, Descriptive, Predictive

**DASHBOARD**

1. Another name for legend(series) in pivot table
   * Column
2. What add-ins is added to create a world heat map?
   * Geographic Heat Map
3. What is the website of the free online dashboard marker?
   * Visual.is
4. What barangay has the largest population in Cebu City?
   * Guadalupe
5. It is used to filter/restrict a display in a graph
   * Slicer

**CREATING DASHBOARD AND FREQUENCY DISTRIBUTION 60%**

Base this on the Excel (Week 2 Assessment)

1. What is the first bin the math scores frequency distribution?
   * 0-9
2. Arrange the top 4 races based on their frequency from highest to lowest?
   * C-D-B-E
3. What is the computed bin for the math scores?
   * 10
4. Based on the Graph, which race/ethnicity has the highest number of male students?
   * C
5. Based on the Graph, which race/ethnicity has the smallest number of female students?
   * A
6. What is the computed width for the math scores frequency distribution?
   * 10
7. What race has the lowest frequency? Write the letter only in a CAPITAL case
   * A

**CUMMULATIVE AND MEASURES OF LOCATION AND VARIABILITY 80%**

Base this on the Excel (Week 3 > Cumulative and Measure of Location and Variability > Engbino\_CMVLExercise)

1. Number of age hospitalized below 50
   * 953
2. Number of Outliers for charges
   * 7
3. Mean of Charges
   * 13036.78
4. Standard Deviation of Charges
   * 11699.36
5. Median for Charges
   * 9301.89
6. Variance of Charges
   * 136875032.99
7. Value of 1st STD (-,+)
   * 1337.41,24736.14
8. Value of 2nd STD
   * -10361.94,36435.50
9. Value of 3rd STD
   * -22061.30,48134.86
10. Age mostly hospitalized
    * 18

**BOX PLOT AND PERCENTILE 60%**

**MEASURES OF LOCATION AND VARIABILITY 52.6%**

1. Find the median of the set of numbers: 21, 3, 7, 17, 19, 31, 46, and 43 - 1
   * **20**
2. In a spelling test, some children in a class score 13, 17, 12, 19, 20, 13, ang 11 out of a total of 20. Find the mean, median, mode, and range - 4
   * **Mean – 15**
   * **Median – 13**
   * **Mode – 13**
   * **Range – 9**
3. Create the number of bins, the width of each bin and bin limit for the data below - 4

Text, letter

Description automatically generated

* **Number of bins – 5**
* **Width of bins – 6**
* **What is the lowest limit value in the first bin – 66**

1. Given the following raw scores in Algebra in Algebra Examination. (Book1.xlsx) - 10  
   **Number of bins: 6  
   Width: 13  
   Bins limit: 1, 13, 26  
   Create the frequency distribution below**

|  |  |  |
| --- | --- | --- |
| **LOWER BINS** | **UPPER BINS** | **FREQUENCY** |
| 0 | 12 | 4 |
| 13 | 25 | 0 |
| 26 | 38 | 5 |
| 39 | 51 | 7 |
| 52 | 64 | 13 |
| 65 | 77 | 6 |
| 78 | 90 | 1 |

Using Excel, write the formula to compute for the frequency: ={\_\_\_\_}

1. Compute for the cumulative frequency given the frequency distribution below – 2

|  |  |  |
| --- | --- | --- |
| BINS | FREQ | CUMULATIVE FREQ |
| 13 - 15 | 3 | 3 |
| 16 - 18 | 11 | 3 + 11 |
| 19 – 21 | 14 | 3 + 11 + 14 |
| 22 – 24 | 7 | 3 + 11 + 14 + 7 |
| 25 - 27 | 5 | 3 + 11 + 14 + 7 + 5 |

**How many values are less than 24?**

1. Using Excel, create the histogram of the attached excel file - 13
   * **Upload the picture of your histogram**
   * **Remove the gaps between the frequency**
   * **The x-axis must have labels of the bins**
   * **Describe the skewness of the histogram -**

Chart, histogram

Description automatically generated

1. Using the file above (excel functions.xlsx). Write the formula on what is asked.

Graphical user interface, text, application, chat or text message

Description automatically generated

1. The following represent age distribution of students in an elementary. Find the mode of the values: 7, 9, 10, 13, 11, 7, 9, 19, 12, 11, 9, 7, 9, 10, 11. - 1
   * 9
2. Using the (excel function.xlsx), provide what is being asked. Answers must be in two decimal place format. 6
   * What is the upper whisker value?
     1. 96.00 (max)
   * What is the lower whisker value?
     1. 39.00 (min)
   * What is the interquartile range value?
     1. 17.75
   * Observation data lesser than **28.63** and greater than **99.63** are outliers
3. Using the (excel function.xlsx), compute for the 55th percentile rank. - 5
   * K – 22.55
   * D – 0.55
   * I – 22.00
   * M – 1.00
   * T – 0.55
   * 55th percentile – 65.55
4. Using the (excel function.xlsx), provide what is being asked. - 5
   * Mean – 64.13
   * Standard Deviation – 12.81
   * Outliers in the data – None
   * How many data are found in the 1st standard deviation? – 29
   * What are the values of the 1st standard deviation?
     1. 76
     2. 51