**Group Assignment Statistics Week 12**

**Main Issue must be in Covid19 Pandemic**

1. The Chi-Square Distribution.
   * Create 2 (two) problems and their solutions related to the topic of The Chi-Square Distribution.
   * The solution should be detailed according to the steps provided by the Guide to Implementation of The Chi-Square Distribution.

Answer:

1. Confidence Intervals for *σ*2and *σ*
   * Create 2 (two) problems and their solutions related to the topic of B. Confidence Intervals for *σ*2and *σ*.
   * The solution should be detailed according to the steps provided by the Guide to Finding Confidence Intervals for *σ*2and *σ.*

Answer:

1. The data shows the amount of new death due to Covid-19 in Indonesia on the second week of October. Assuming the number of deaths is normally distributed and has a confidence interval of 90%, find the confidence interval for a variance and a standard deviation!

|  |  |
| --- | --- |
| **date** | **deaths** |
| 08/10/2020 | 108 |
| 09/10/2020 | 97 |
| 10/10/2020 | 88 |
| 11/10/2020 | 79 |
| 12/10/2020 | 91 |
| 13/10/2020 | 92 |
| 14/10/2020 | 129 |

1. The data shows the amount of new death cases due to Covid-19 in Indonesia for 17 days. Assuming the number of deaths is normally distributed and has a confidence interval of 80%, find the confidence interval and confidences interval for population.

|  |  |
| --- | --- |
| **date** | **deaths** |
| 15/10/2020 | 112 |
| 16/10/2020 | 79 |
| 17/10/2020 | 84 |
| 18/10/2020 | 80 |
| 19/10/2020 | 106 |
| 20/10/2020 | 117 |
| 21/10/2020 | 123 |
| 22/10/2020 | 102 |
| 23/10/2020 | 118 |
| 24/10/2020 | 128 |
| 25/10/2020 | 94 |
| 26/10/2020 | 112 |
| 27/10/2020 | 101 |
| 28/10/2020 | 100 |
| 29/10/2020 | 89 |
| 30/10/2020 | 81 |
| 31/10/2020 | 87 |