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Performance Task 2 in Statistics and Probability

Grade 11-4 Br. Leon

Group Three

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Submitted to Sir Marc Jeffrey Sioco

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Introduction

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Nature of the Gathered Data

The rapid transmission of Coronavirus disease (COVID-19) in the Philippines continued to propagate as the number of new deaths, new recoveries, and new cases from September 23 to December 31, 2020 were collected from the official daily case bulletin published by the Department of Health (DOH). Accordingly, the aforementioned variables are classified as discrete-quantitative variables. It is evident how the data are gathered through counting; not by measuring or categorizing. The data is also classified as a ratio since there exists a true or meaningful zero. However, the relationship between the variables of the data are not directly dependent. A change in a variable does not guarantee a corresponding change in another. For instance, a rise in the number of recoveries does not equate to a decrease in the death rate. With that being said, the outcomes of the variables are purely unpredictable and can vary from time to time depending on the situation.

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Graph of new cases

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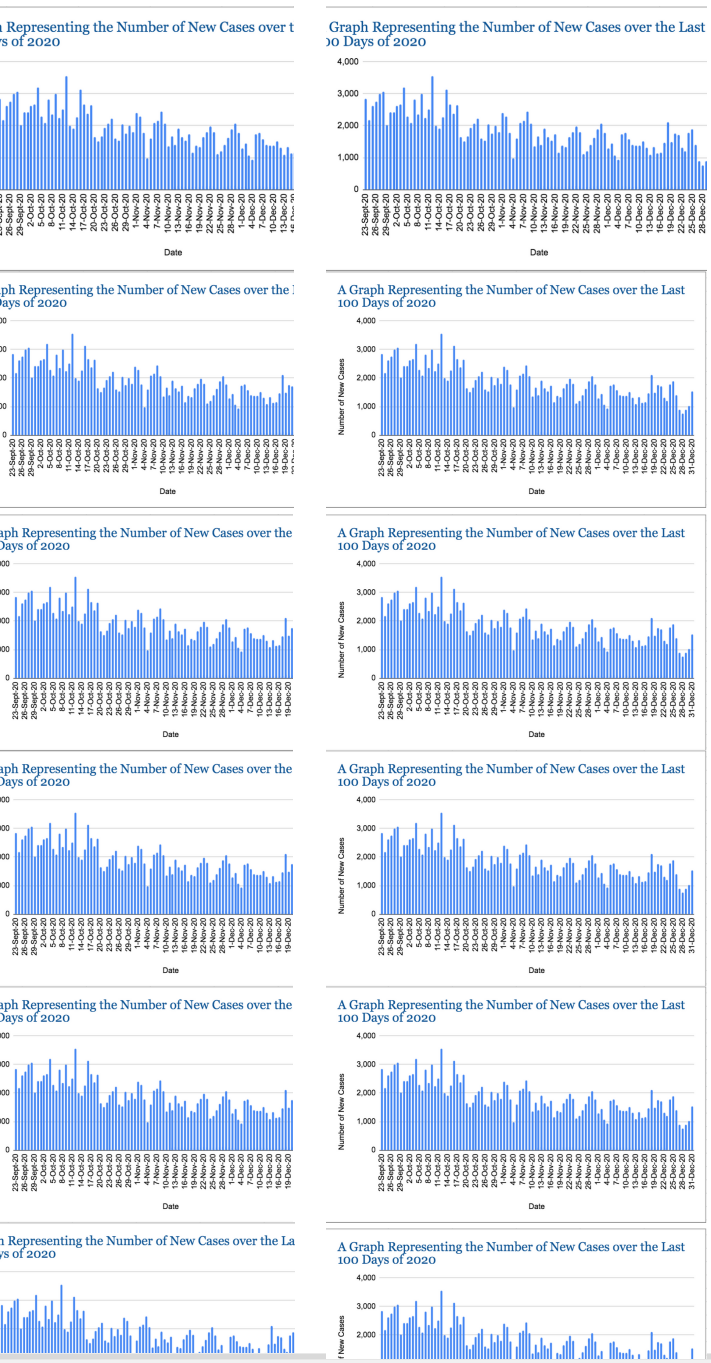

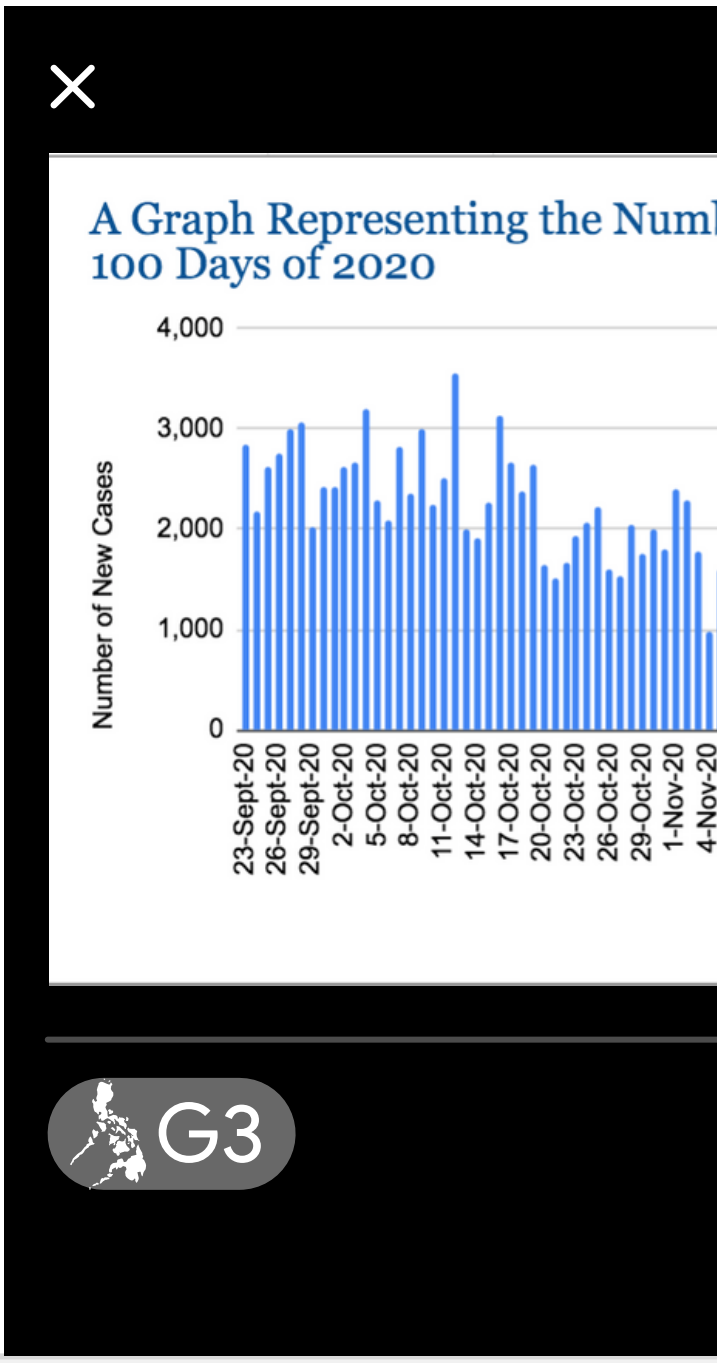

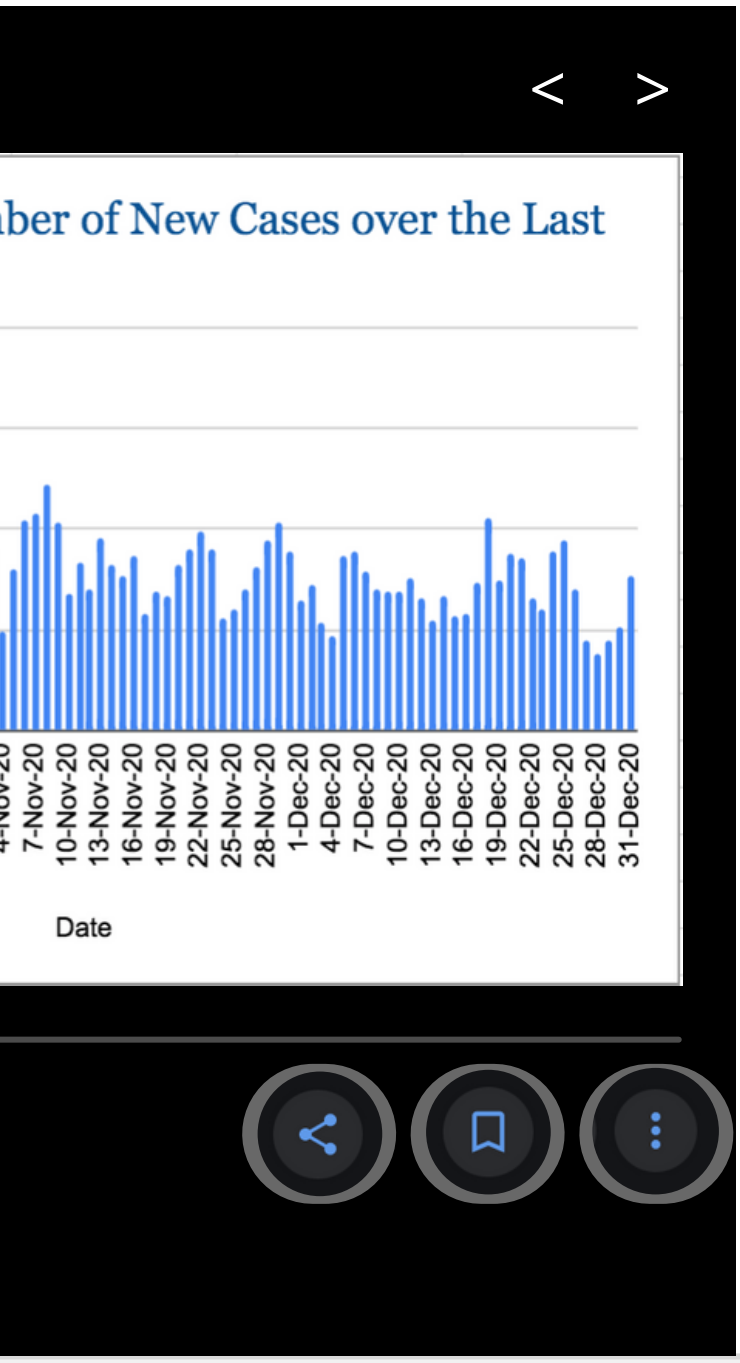

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New Cases per Day

According to the column graph representation of data, there has been a decrease of new COVID Cases over the past 100 days in the Philippines. With its peak at 3,564 cases on October 12, 2020, the cases have been slowly declining entering early December. The lowest number of cases were recorded 766 on December 28, 2020.

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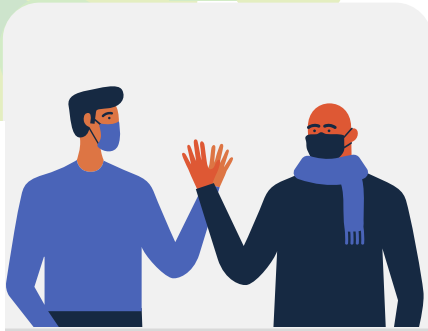
New recoveries per day

New deaths per day



Mean and Standard Deviation

Nature of Gathered Data

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Graph of new recoveries

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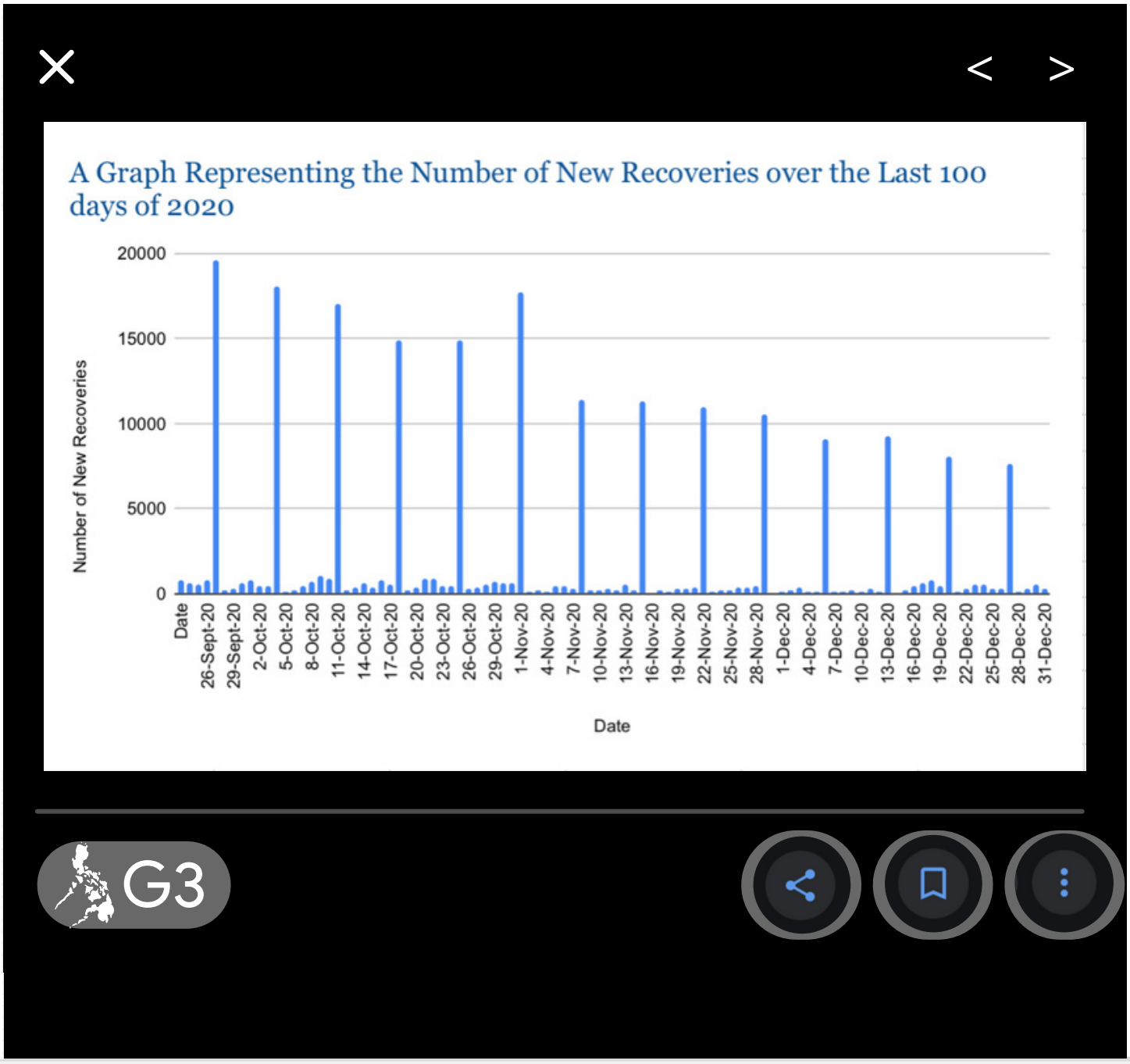

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New Recoveries per Day

Based on the collected data and its column graph, there were days where the new COVID-19 recoveries increase and decrease over the past 100 days in the Philippines. The highest number recorded was last September 27, 2020, with a total of 19,630 recoveries and the lowest was 41 recoveries last December 14, 2020.

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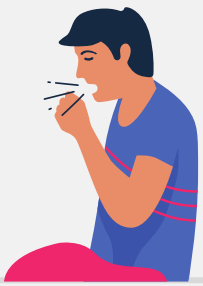
New deaths per day



New cases per day

Mean and Standard Deviation

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Graph of new deaths

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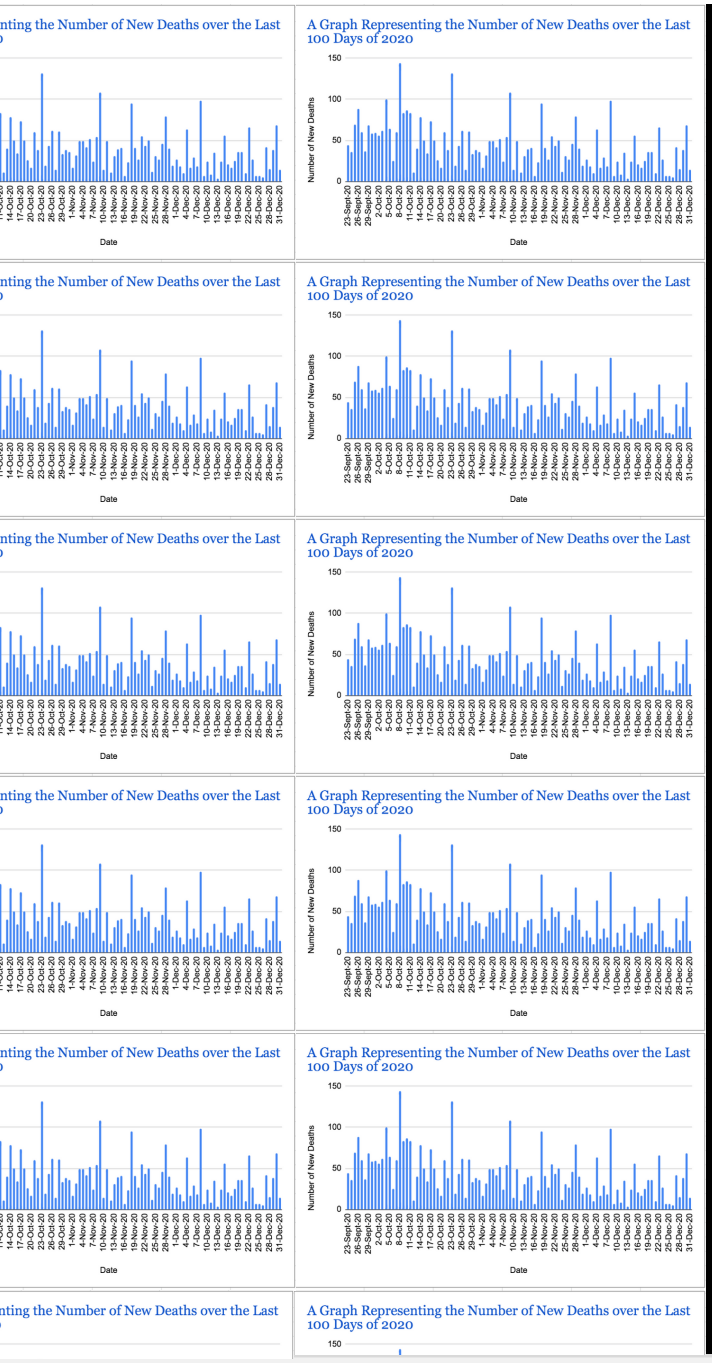

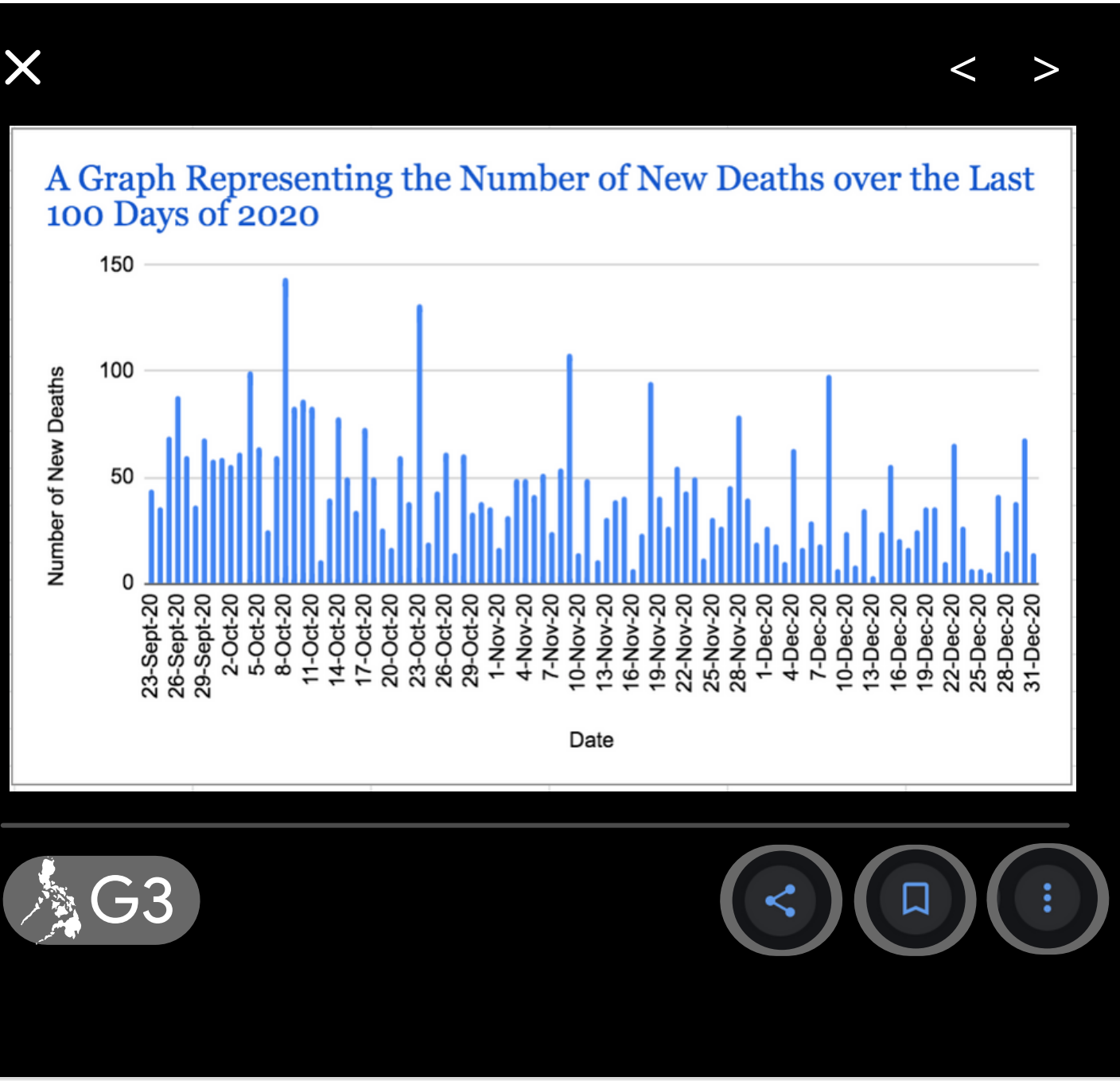

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New Deaths per Day

According to the column graph representation of data, there has been an increase and decrease of new COVID Deaths over the past 100 days in the Philippines. With its peak at 144 deaths on October 8, 2020, the cases have been slowly declining entering early December. The lowest number of deaths were recorded 3 on December 13, 2020.

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Mean and Standard Deviation

Nature of Gathered Data

New cases per day

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Mean and Standard Deviation of New Cases

The mean for the number of new cases per day for the last 100 days of 2020 is 1,854. Additionally, the standard deviation of the new cases per day is 585.25.

Mean and Standard Deviation of New Recoveries

The mean for the number of new recoveries per day for the last 100 days of 2020 is 2,120.94. Additionally, the standard deviation of the new recoveries per day is 4,595.04.

Mean and Standard Deviation of New Deaths

The mean for the number of new deaths per day for the last 100 days of 2020 is 42.76. Additionally, the standard deviation of the new deaths per day is 27.70.