

## STATISTICAL INVESTIGATION SHEET

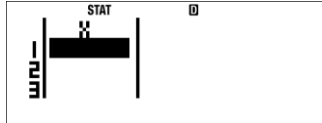
### Introduction Tool:

#### Steps using the Saintific Calculator

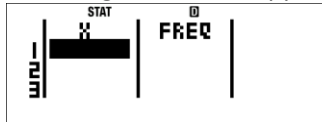
Use of Calculator in Setting Data Center Size (Mean, Median, Mode):

Step 1: Click "On"

Step 2: Click "**MODE** **3** **1**" will appear the following view:

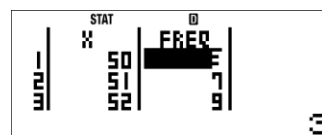


Step 3 : Click "**SHIFT** **MODE** **4** **1**" the following screen will appear:



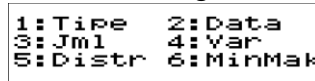
Step 4: Enter data and frequency on X and Freq data:

| X  | F  |
|----|----|
| 50 | 3  |
| 51 | 7  |
| 52 | 9  |
| 53 | 10 |
| 54 | 15 |
| 55 | 25 |
| 56 | 18 |
| 57 | 10 |
| 58 | 9  |



Step 5: Find the Mean and median values of the data:

Press **AC** then **SHIFT** **1** will appear the following command:



Select **4** then select **2** to calculate the average and click **=** . What did you get?

.....

Then press **AC** **SHIFT** **1** **6** **4** **=** to calculate the median, what do you get?

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**ACTIVITY 1: STATISTICAL INVESTIGATION SHEET SINGLE DATA AND GROUP**

A. Classical activity: identifying pocket data of one class

B. Group Activity:

1.a. Fill in the results of the investigation data in the following fields:

Allowance (X) Frequency

| Uang Saku (X) | Frekuensi |
|---------------|-----------|
| 0             | 1         |
| 1             | 1         |
| 2             | 1         |
| 4             | 1         |
| 5             | 4         |
| 7             | 1         |
| 10            | 19        |
| 15            | 2         |
| 20            | 3         |

1.b. Determine the mean and median values of the data?

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2.a. Serve the allowance data with the following table.

| Uang Saku (X) | Frekuensi (F) | Titik Tengah (Xi) |
|---------------|---------------|-------------------|
| 0 – 2,9       |               |                   |
| 3,0 – 5,9     |               |                   |
| 6,0 – 8,9     |               |                   |
| 9,0 – 11,9    |               |                   |
| 12,0 – 14,9   |               |                   |
| 15,0 – 17,9   |               |                   |
| 18 – 20.9     |               |                   |

Description: Allowance in thousands of dollars

Then follow these steps to operate the scientific calculator (Casio Fx 991 ID Plus):

 (Step to determine the middle point of group data, first first determine middle value in first class).

2.b. What is different data presentation in 1.a. And 2.a.?

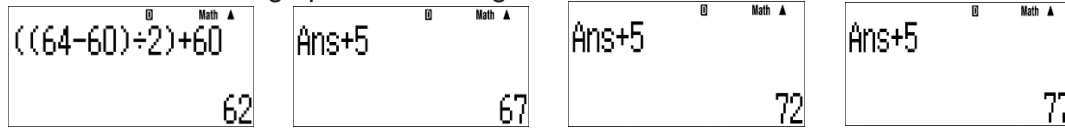
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 .....

2.c. Find the mean and median values of the group data:

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**ACTIVITY 2:**

Perform the following operations using CASIO FX 991 ID Plus: observe the following statistics!



1. From the above data what can you describe based on the number pattern?

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2. Make group data from the dish!

| VALUE | FREQUENCY |
|-------|-----------|
|       | 5         |
|       | 8         |
|       | 15        |
|       | 10        |
|       | 2         |

3. From the view specify the mean and standard deviation of the data using Casio FX 991 ID Plus!

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4. From the data specify the median value, the mode, and the quartile deviation of that data by using Calculator media to explore the formula dish !.

Median =

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Modus =

.....

Quartil Deviation =

.....