

## Data Handling / Statistics

**“Which is the most popular letter in English?” or “Which is the mostly used alphabet in English?”**

You have already collected some data to answer the above questions.

Now is time for you to put all your data in an organize way and further discuss the findings and present your work in a full report.

Check list (Your report should include the followings):

**1. A title page**

Including: Your name, your class, the topic / title of the report.

**2. Introduction and Hypothesis (My own guess)**

What is this report about?

How did you class come up with the way to solve this question?

What is your own guess for this question?

*e.g. My guess is \_\_\_\_\_ is the most popular letter in English.*

**3. Collecting Data (from random sample)**

What method or procedures you’ve used to collect the data.

(e.g.: Choose a book / journal / anything written in English, Choose a page, Count around 10-15 rows (~500-1000 characters))

**4. Organizing Data (use a tally chart and frequency table)**

| Letter                        | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |  |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Tally                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Frequency<br>(My own results) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Frequency<br>6 _____          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Frequency<br>6 _____          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Frequency<br>6 _____          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Frequency<br>6 _____          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

*\*(The different class results are rounded to the nearest 10)*

## 5. Presenting Data (with bar graph)

- a. Draw a bar graph with your own results (used the graph paper provided by your teacher)
- b. Draw a bar graph with your class total results (round off to the nearest tens), can use graph paper or use computer software to insert graphs.
- c. Draw a compound bar graph with different classes total results (round off to the nearest tens), use computer software to insert graphs.
- d. Draw any other graph you think may help to answer this question.

\*Each graph must have:

- I. Heading/ Title,
- II. Proper scale for x and y-axis,
- III. Correctly drawn and labeled axis,
- IV. Spaces between bars,
- V. All bars have even width,
- VI. The height of each bar matches the data, etc.

## 6. Analyzing and interpreting Data (Conclusion)

- a. Discuss the data, compare with your own guess, the data collected by you, your class and different class and make conclusion (inference).
- b. Do you think the conclusion is accurate? Why? (Hint: you might talk about sample, population, and research from other sources, then compare our student's results with them).
- c. Reflect on what have you learn from this survey and report and how can you improve next time.

**Make your report as presentable and colorful as you can.**