

# MA6131 Advanced Statistics



Name: \_\_\_\_\_ ( )

Date: \_\_\_\_\_

## NOTES SET 1: EXPLORING DATA

This set of notes is to be used together with Chapter 1 of the textbook,  
by Yates, Moore & Starnes.

### Introduction

Data can be organized and arranged in many ways. Information placed in tables or rows of numbers tend to be lifeless. Some form of graphical display is useful as it presents an immediate impression of the data and allows the reader to see the underlying pattern much more clearly. All graphical displays must be clearly labeled. AP scoring guides penalize the lack of titles and labels.

### Graphs for Categorical Data

A categorical variable notes the category to which the individual belongs. The values of a categorical variable are labels for the categories, such as "blue", "black", etc. The **distribution** of a categorical variable lists the categories and gives either the count or percentage of individuals who fall into each category. Pie charts, dotplots and bar charts are useful graphs to represent categorical variables.

### Pie Charts

Pie charts must include all categories that make up the whole. It should be used only when you want to emphasize each category's relation to the whole. (Page 40)

### Bar Graph

Another common visual display to compare the sizes of different groups or categories is the **bar graph** (bar chart). The width of each bar is equal and the height of the bar chart is used to represent the size of the data. Bar graphs are easier to make and easier to read compared to pie charts. They are also useful to compare set of quantities that are measured in the same units.

(Page 40 – 41)

### Dotplot

The **dotplot** is also sometimes used to represent categorical data. The frequency of each result is represented by the number of dots. (See page 47 Figure 1.5)

### Example 1

Linda asked everyone in her class what was their most favorite subject and the data she collected is as follows:

Favourite Subjects	Number of Students	Percentage
English	8	20
Mathematics	10	25
Physics	6	15
Biology	6	15
Chemistry	2	5
Humanities	6	15
Others	2	5

Instead of just showing the data as a bunch of numbers, she can display it using a pie chart as shown:

# Mei Statistics 1 Exploring Data Answers

**Ensheng Dong**



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