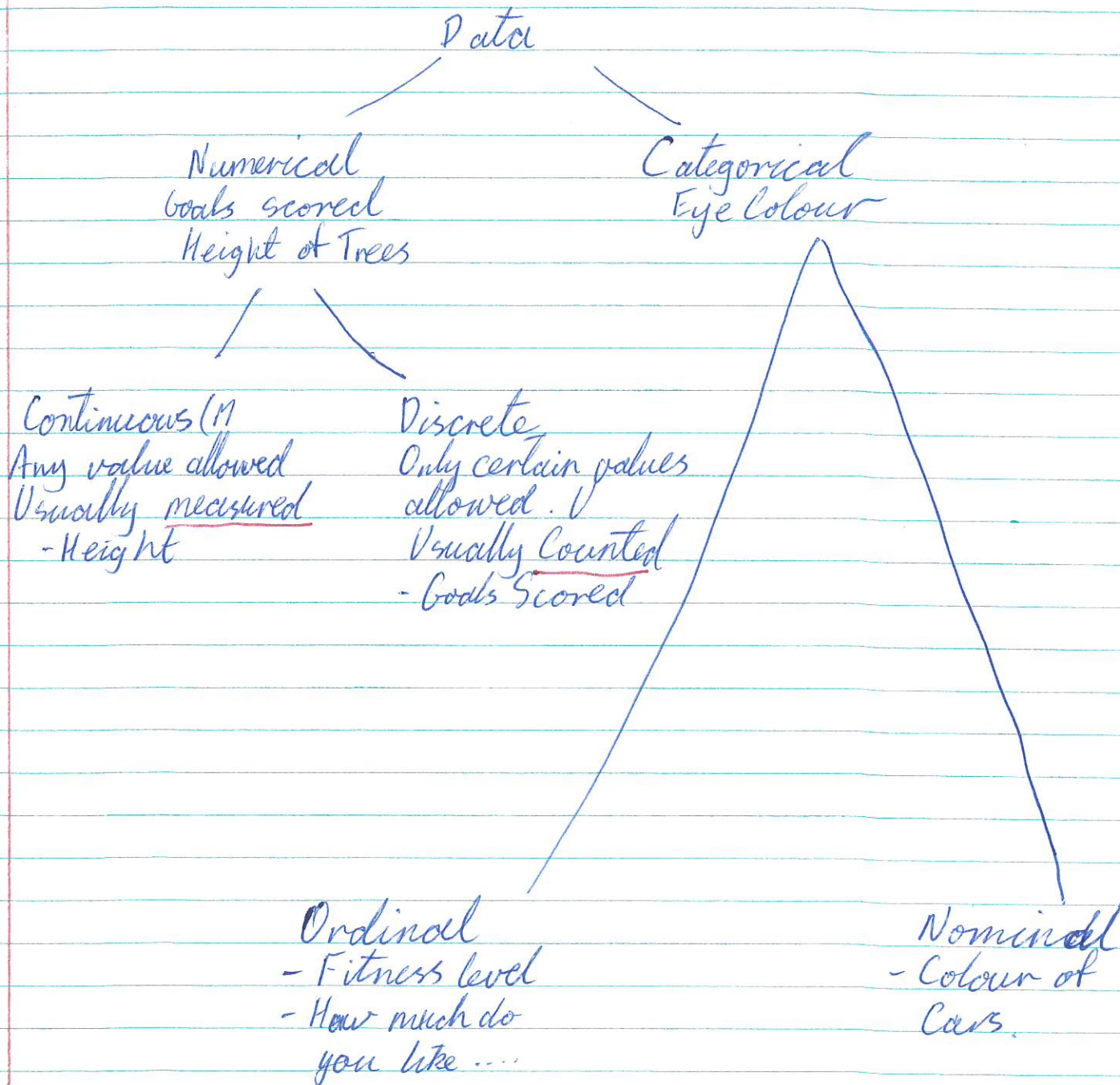


# DATA ANALYSIS.

## UNIVARIATE DATA.

Univariate data has one variable eg Height.

### \* Types of Data.



## \* Displaying Data (Categorical).

### - Frequency table

A listing of the variable and the frequency (How many) of each value.

| Variable | Frequency. |
|----------|------------|
| Red      | 2          |
| Blue     | 4          |
| Green    | 6.         |

The frequency can be written as a number or as a percentage.

$$\text{Percentage Frequency} = \frac{\text{Count}}{\text{Total Count}} \times 100$$

| Variable | Frequency |                                    |
|----------|-----------|------------------------------------|
|          | Number    | %                                  |
| Red      | 2         | $\frac{2}{12} \times 100 = 16.7\%$ |
| Blue     | 4         | $\frac{4}{12} \times 100 = 33.3\%$ |
| Green    | 6         | $\frac{6}{12} \times 100 = 50\%$   |
|          | <u>12</u> |                                    |

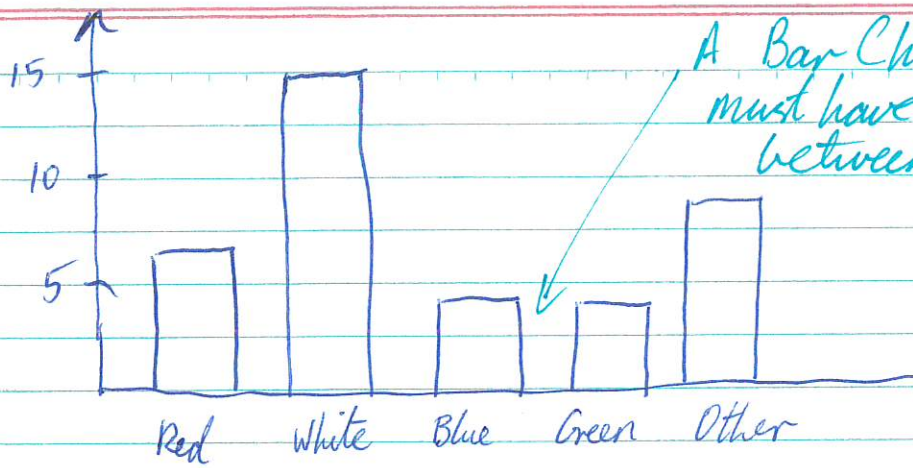
### - Bar Chart.

Used for Categorical data

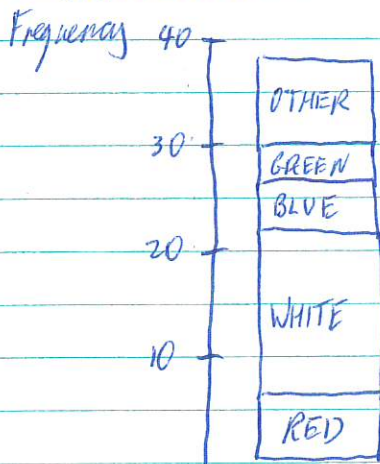
Eg The following represents the Colours of Cars in the car park.

| Colour | Red | White | Blue | Green | other |
|--------|-----|-------|------|-------|-------|
| Number | 7   | 15    | 4    | 4     | 8.    |

Frequency



Another type of bar chart is the Segmented Bar Chart. Also known as divided or stacked bar charts.



Questions:

Ex 1A and 1B Questions on Work Plan.