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 Department of Mechanical Engineering
 Module: Probability and Statistics (PST)
 2nd Year EM, GM

TD : N°2

Exercise 1:

A study on the choice of a fruit juice (Pineapple (P), Grape (G), Mongue (M) was carried out. The survey responses are as follows:

M P G M G P P P M M P M P G M P M G P M G G G M G

M P P M G P P P P G G M G G M M P G G P G G M G

1. What is the population, the character studied, specify its nature and its modalities?
2. Present the results in a statistical table.
3. What is the proportion of people who prefer pineapple juice?
4. Give an adequate graphic representation using the frequencies. .

Exercise 2:

A survey of a group babies on the brand of powdered milk used for the ages of 1, 2 and 3 years gave the following results:

1. Provide a graphical representation for this type of data.

	Celia	Nursy	Biomil	Novalac
1 Years	20	15	38	12
2 Years	27	44	33	16
3 Years	10	21	19	30

Exercise 3:

The results of a survey concerning the leisure activities of a population of 20 persons are available:

Age	12	14	40	35	26	30	30	50	75	50	30	45	25	55	28	25	50	40	25	35
Leisure	S	S	C	C	S	T	T	L	L	L	T	C	C	C	S	L	L	C	T	T

Codification: S: Sport, C: Cinema, T: Theatre, L: Reading

1. What is the total counts?
2. What are the values of each character? specify their natures?
3. Draw up the statistical tables.
4. Draw the diagrams corresponding to these characters.