

PRESENTATION OF DATA

Dr.Gayatri Nimbhore

Associate Professor

Dept of Organon of Medicine

Objectives

LESSON OBJECTIVES

AT THE END OF THIS LESSON, YOU SHOULD BE ABLE TO:

- 01 define and illustrate the different methods of presenting data
- 02 identify the parts of a statistical table
- 03 determine the different types of graphs or diagrams and their uses
- 04 represent a set of data using the different methods of presenting data



PRESENTATION OF DATA

This refers to the organization of data into tables, graphs or charts, so that logical and statistical conclusions can be derived from the collected measurements.



METHODS OF DATA PRESENTATION

TABULATION

DIAGRAMS



TYPES OF TABLE



SIMPLE TABLE

MASTER TABLE

FREQUENCY
DISTRIBUTION TABLE

Tabular Presentation

- Rules
 - Must be **numbered**
 - **Brief** and **self explanatory title** should be given
 - **Heading of column and row** must be clear, sufficient and fully defined
 - **Date** should be presented according to importance.
 - Table should **not be too large**

Tabular presentation

- **Tabular presentation**
- Table no: Title:

Heading of the rows(stubs)	Heading of the columns(caption)		Total
	Subheading	Subheading	
Subheading	Body of the table		
Subheading			
Total			

- Foot note
- Source

SIMPLE TABLE

TABLE SHOWING AVERAGE CARIES EXPERIENCE (DMFT) IN SIX DISTRICTS OF MAHARASHTRA.

DMFT REGIONS	AVERAGE DMFT
Pune	3.5
Aurangabad	2.1
Satara	4.7
Mumbai	3.2
Latur	4.6
Nagpur	2.6

MASTER TABLE

TABLE 1 : SHOWING DECAYED ,MISSING AND FILLED TEETH AMONG FOUR DEGREE STUDENTS

SL.NO	AGE (YRS)	SEX	EDUCATION	DECAYED	MISSING	FILLED
1	22	MALE	Graduate	2	0	1
2	23	FEMALE	Post graduate	1	1	0
3	24	FEMALE	Class 10	6	2	0
4	25	MALE	Illiterate	10	4	2

FREQUENCY DISTRIBUTION TABLE

TABLE SHOWING CARIES EXPERIENCE (DMFT LEVELS)
OF 15 STUDY SUBJECTS

INTERVAL (DMFT LEVEL)	FREQUENCY	Tally
1-3	3	III
4-6	2	II
7-9	5	HHH
10-12	3	III
13-15	3	III

CLASS INTERVAL = 2 DMFT

Presentation of Data

DIAGRAMMATICAL PRESENTATION

- Bar diagram (Vertical and Horizontal)
 - Simple
 - Multiple
 - Component
- Pie or Sector diagram
- Picture diagram or Pictogram
- Map diagram
- Venn diagram

GRAPHICAL PRESENTATION

- Histogram
- Frequency polygon
- Frequency curve
- Cumulative Frequency curve
- Line chart
- Scatter or Dot diagram
- Stem & Leaf
- Box & Whisker plot

Drawing Methods

Qualitative

- Bar diagram
 - Simple
 - Proportional
 - Multiple
- Pie or Sector diagram
- Pictogram / Picture diagram
- Map diagram / Spot diagram
- Venn diagram

Quantitative

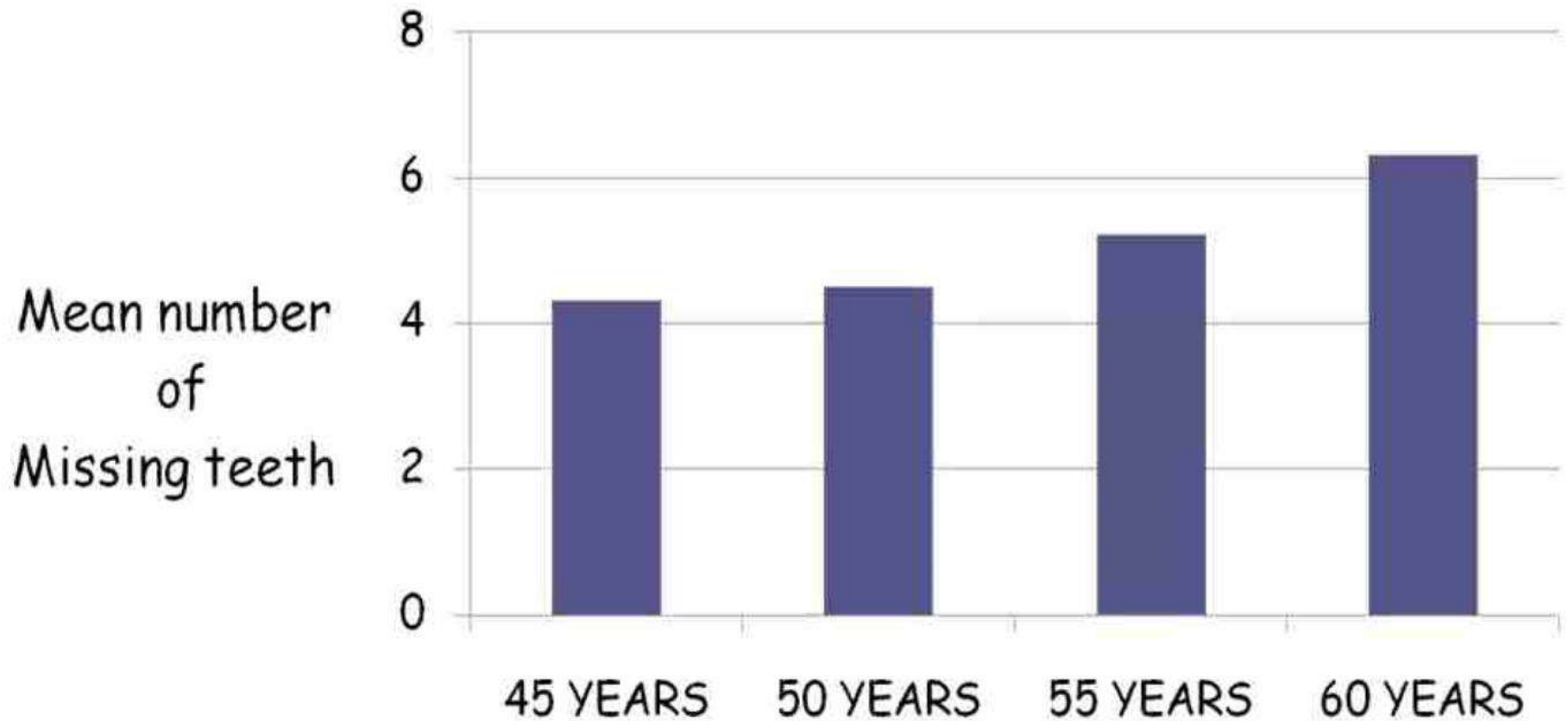
- Histogram
- Frequency polygon
- Frequency curve
- Line chart / Graph
- Cumulative frequency / Ogive
- Stem and leaf method
- Scatter / Dot diagram
- Box & whisker plot

GRAPHS AND DIAGRAMS

- IMPACT ON IMAGINATION
- BETTER RETAINED IN MEMORY
- EASY COMPARISONS

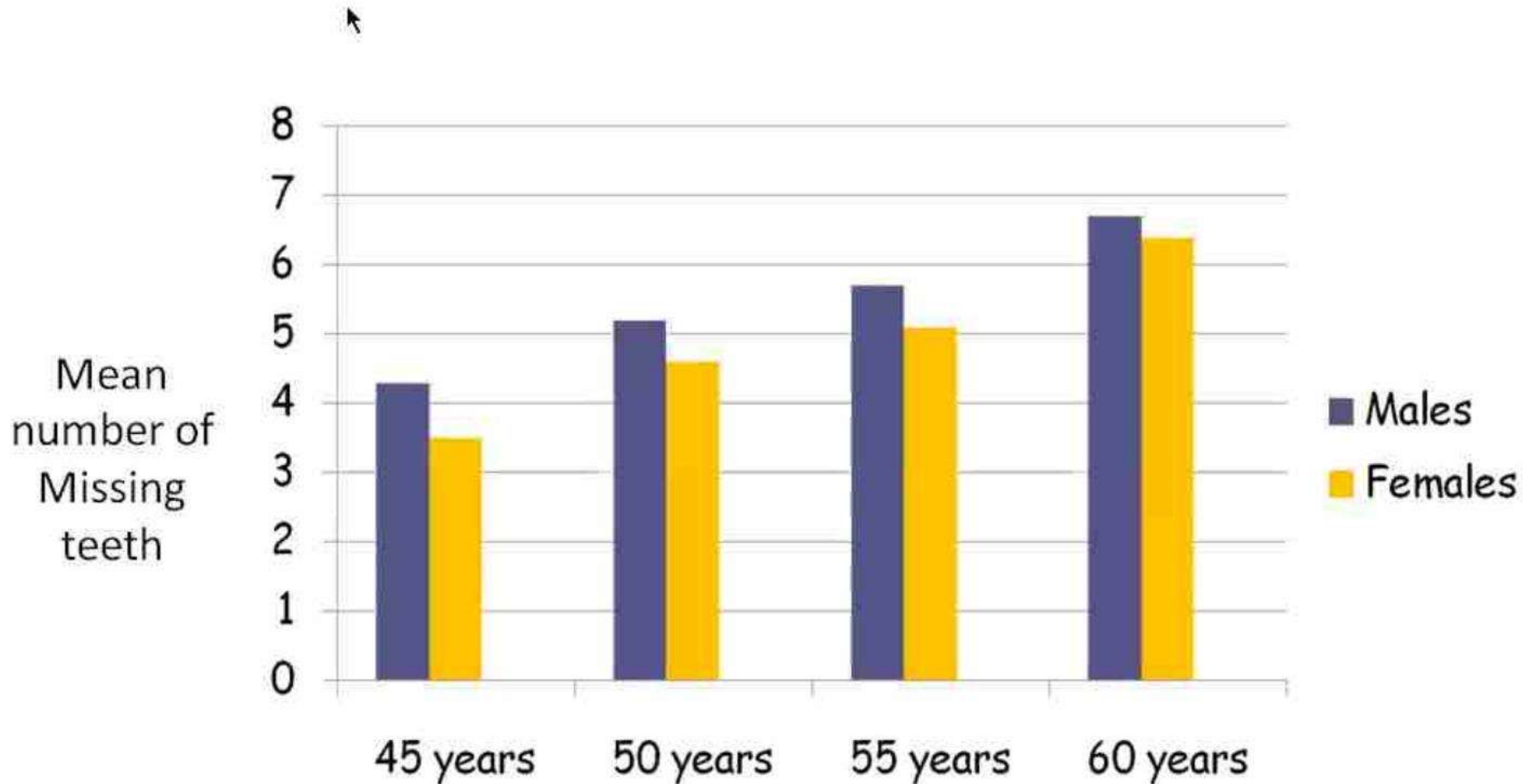


SIMPLE BAR GRAPH



Graph showing the mean number of missing teeth among 45 – 60 years old study subjects.

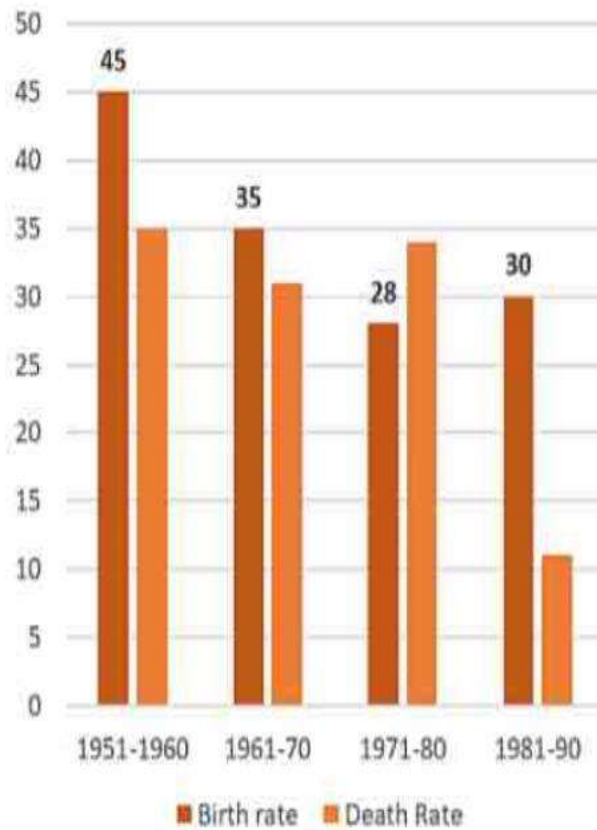
MULTIPLE BAR Diagram / Compound BAR Diagram



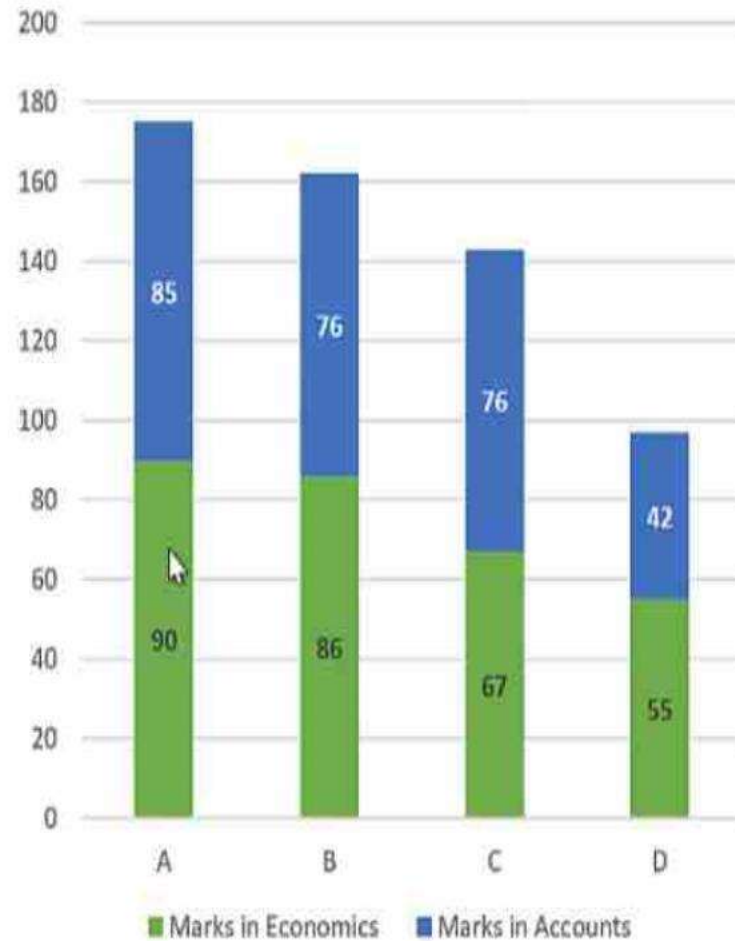
Bar graph showing the mean number of missing teeth among 45 – 60 years old study subjects.

Diagrammatic Presentation of Data

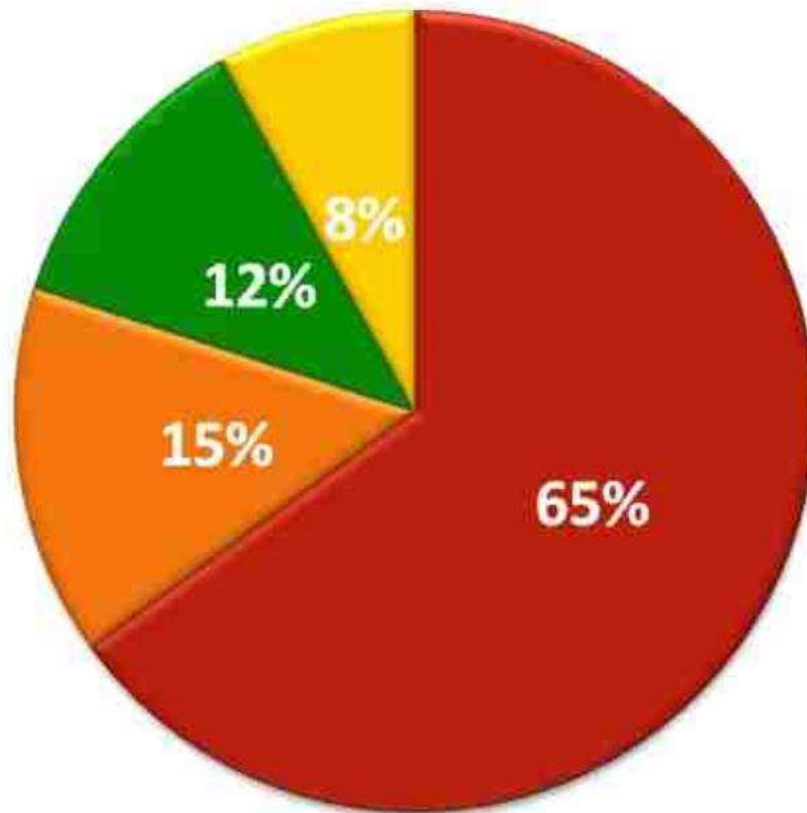
Multiple Bar Diagram- Vertical



Component Bar Diagram



PIE DIAGRAM



Easy for a lay person

- Angle's Class I
- Angle's Class II
- Angle's Class III
- Angle's Class IV

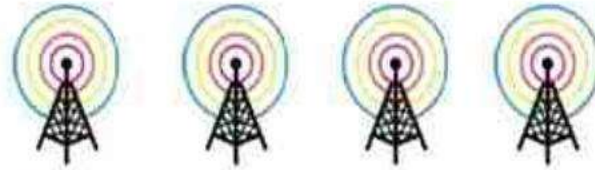
Pie diagram showing the distribution of types of malocclusion among 15 year old school children.

All categories are mutually exclusive

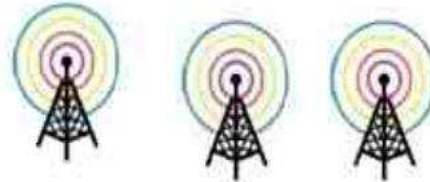
PICTOGRAM

Easy for a lay person

JIO USERS



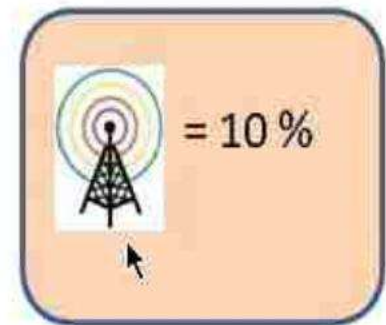
AIRTEL USERS



VODAFONE IDEA USERS



OTHERS



Pictogram showing the percentage(%) of mobile network users in city.

MAP
Diagram

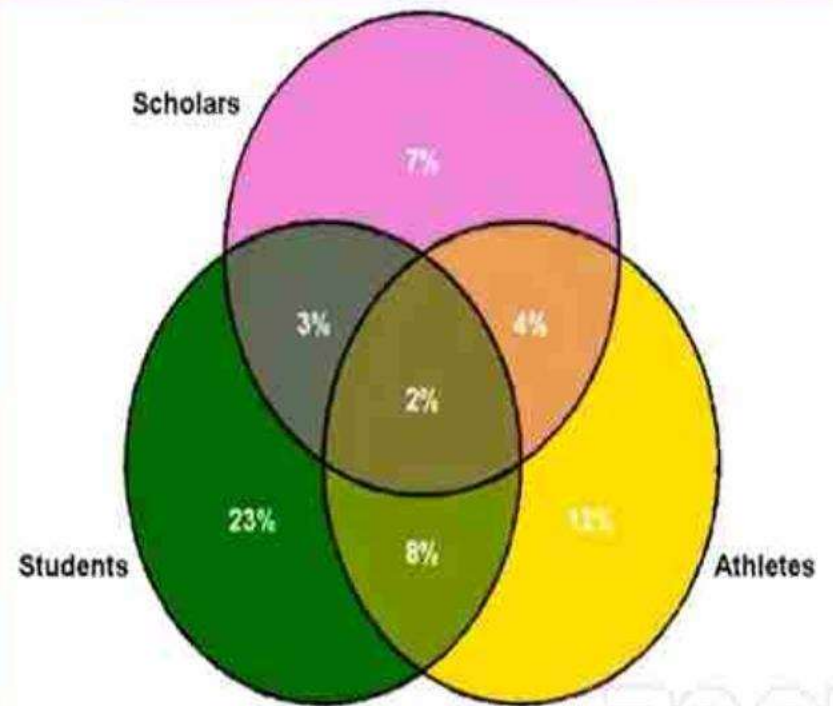
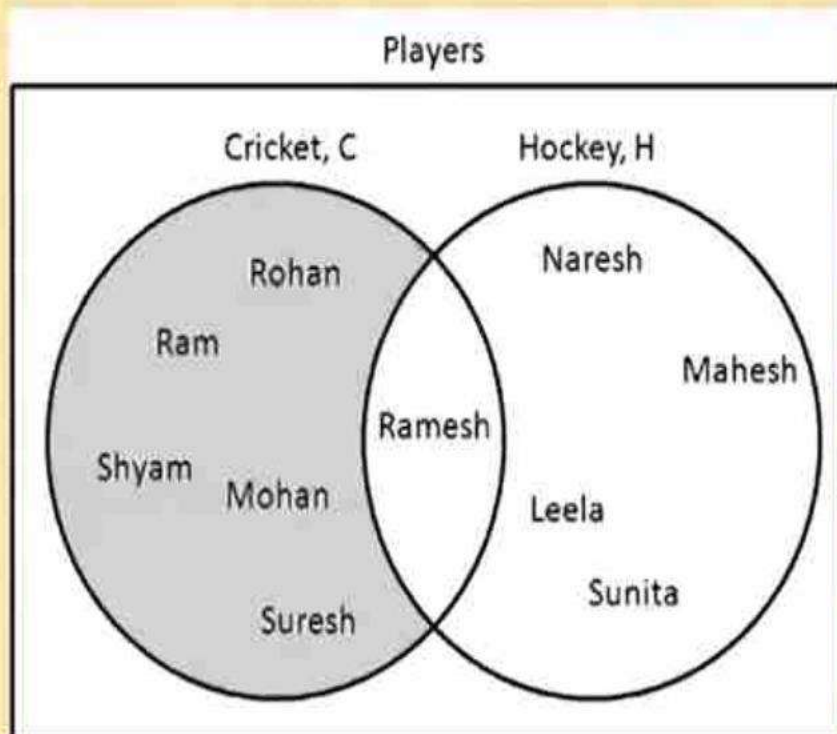
CARTOGRAM



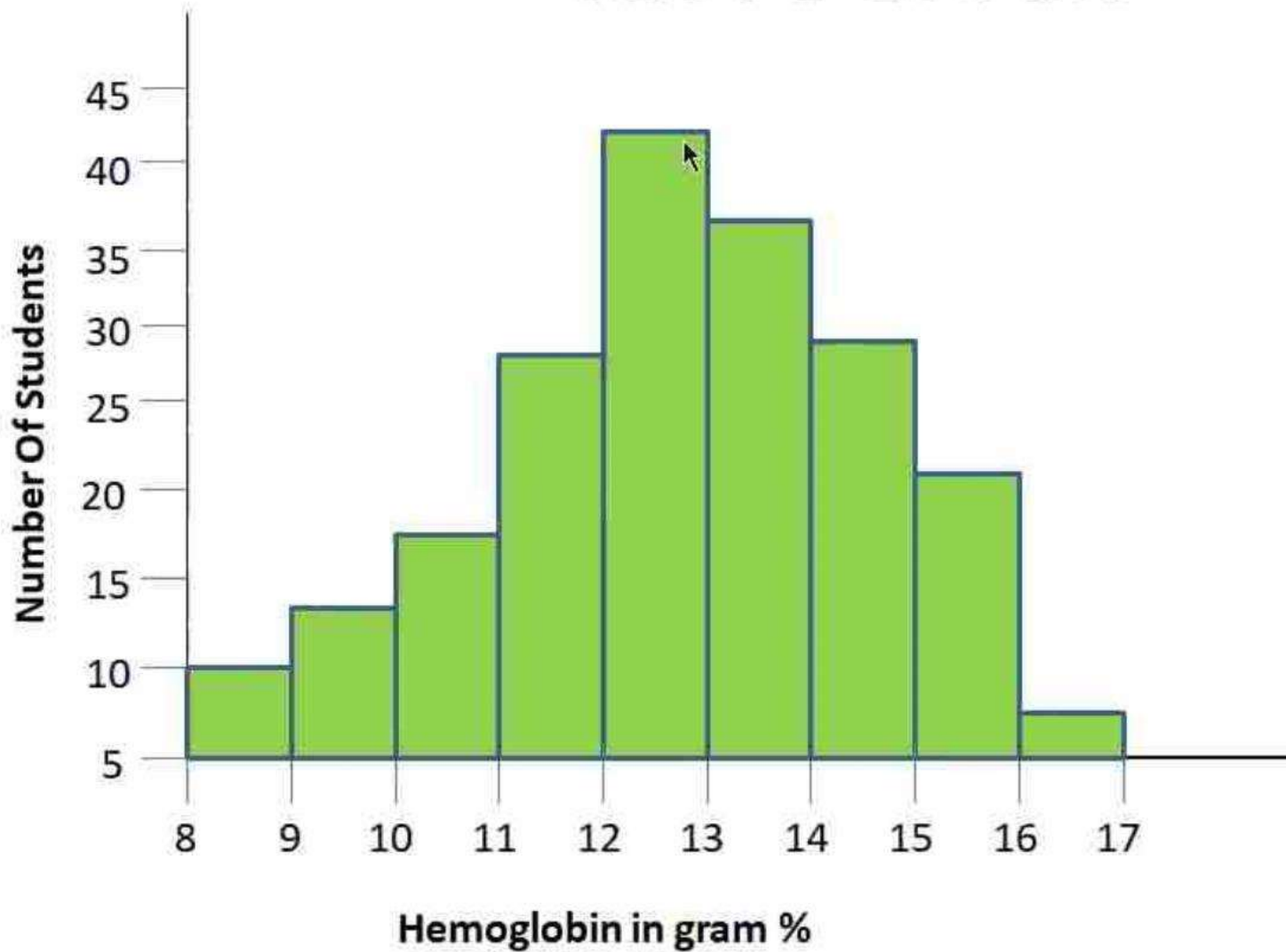
Venn Diagram



- It is used to represent relationship between two groups.
- It shows degree of overlap and exclusivity.



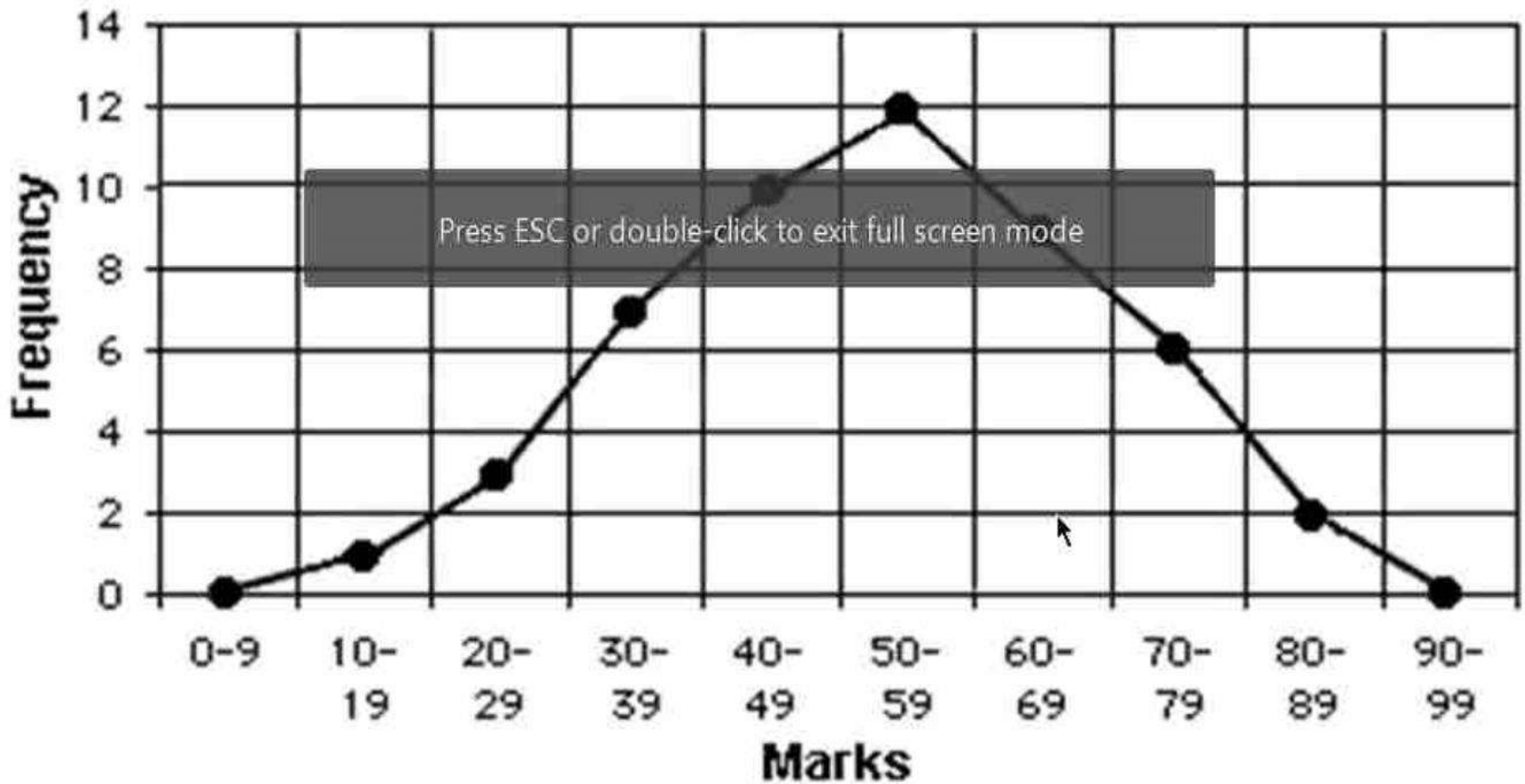
HISTOGRAM



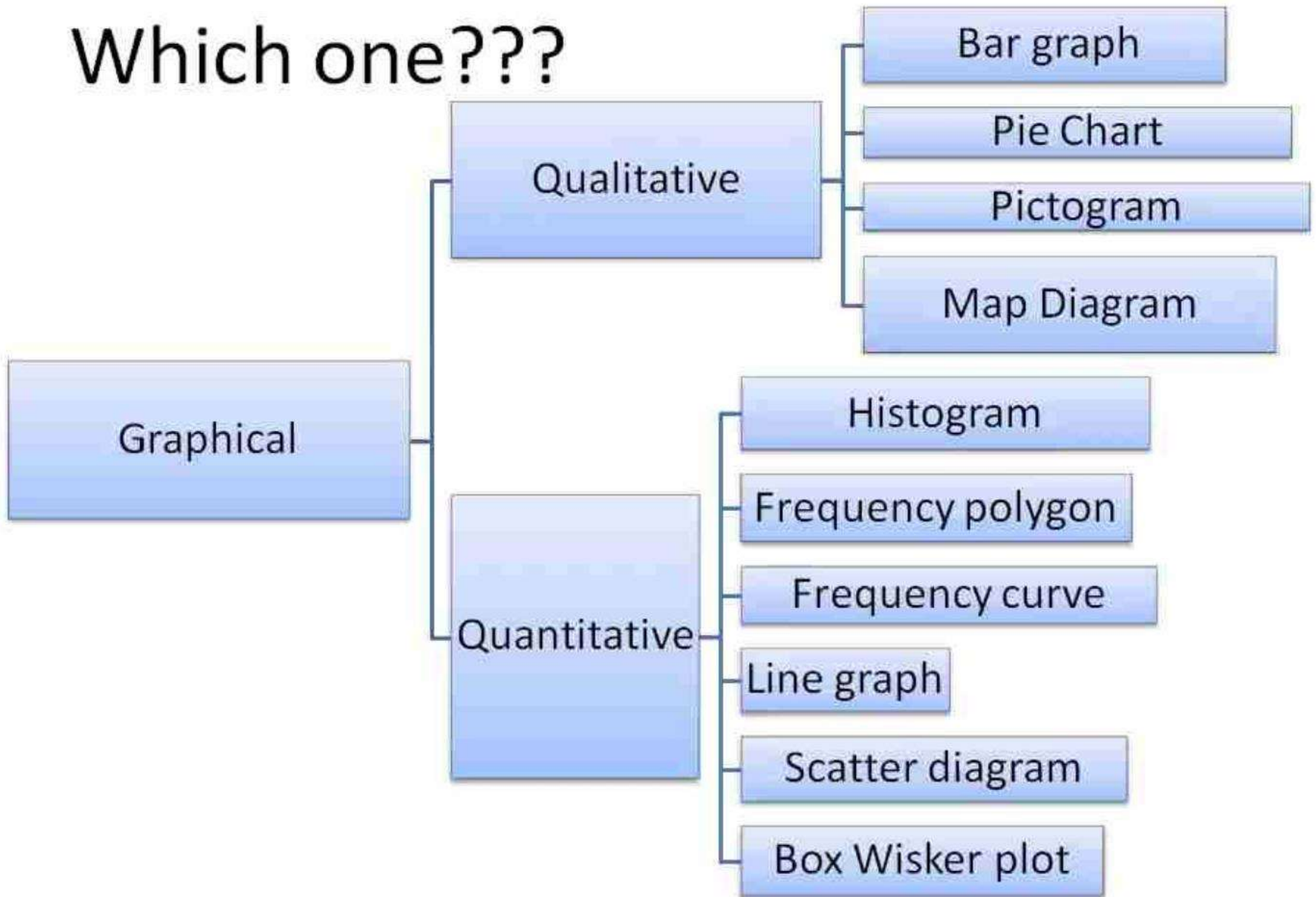
Hemoglobin levels of Students in a class.

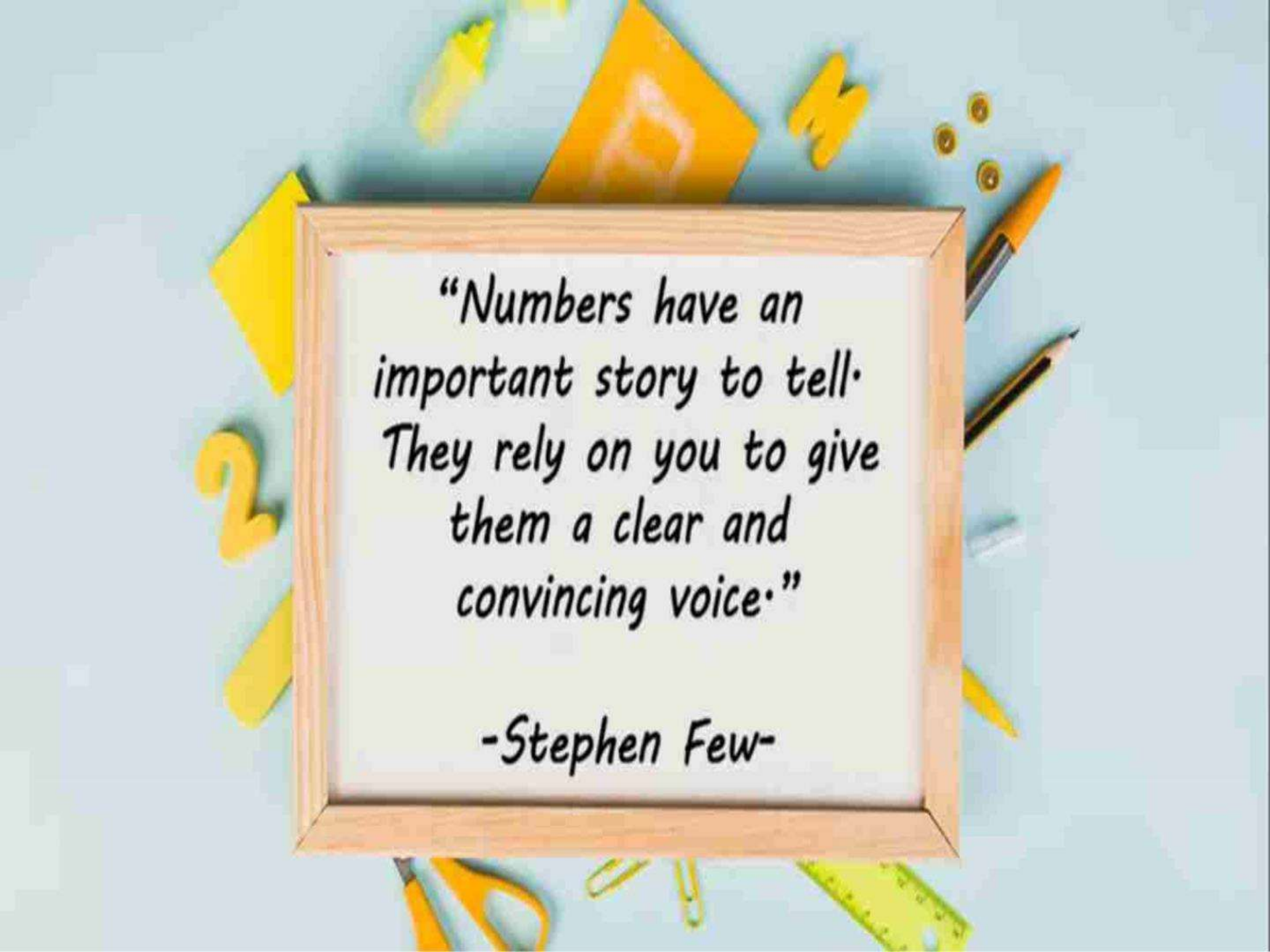
FREQUENCY POLYGON

Frequency Polygon



Which one???





*“Numbers have an
important story to tell.
They rely on you to give
them a clear and
convincing voice.”*

-Stephen Few-

The image features a scenic mountain landscape with a central purple-to-pink gradient diamond containing the text "THANK YOU". The background is a composite of several mountain scenes, including a dirt path on a rocky slope, a valley with a river, and distant mountain ranges under a cloudy sky. The diamond is centered and contains the text "THANK YOU" in white, bold, sans-serif font. The overall composition is framed by a dark, repeating pattern of rounded hexagons.

**THANK
YOU**