## Graphical Representation of categorical

- i) Ban diagnam
- ii) Pie-diagnam on Pie-ehant
- 111) Pictogram and
- is) line diagnam.

## i) Bari Diagram:

A ban diagram, also known as banchant is a form of presentation which the frequencies we represented by rectangles usually separated along the horrizontal axi's and drawn as bans of convenient widths.

Example: Consider the health professional data. The numbers of tresponses in each eategory was totaled to give the following frequency distribution.

Frequently - 49

Oceassionally - 71

Rarcly - 24

Nevor - 6

Total - 152

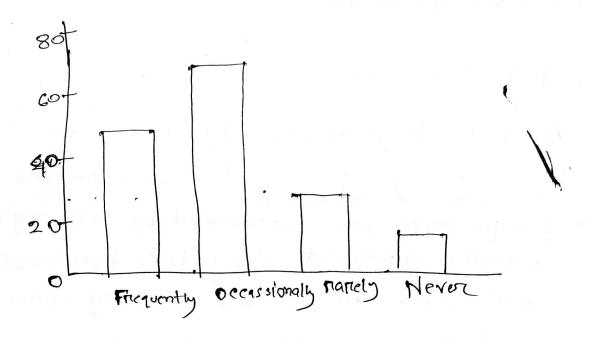


Figure: Ventical ban diagram for health centre visit data.

## (ii) Pie-diagnam on Pie chant:

This is an alternative way to box diagram. It looks more attractive but requires some knowledge of mathematics for the foundation work to draw this diagram. For we form the relative frequency distribution (%) for this purpose and Convert the percent values in angles.

<u>'Table</u>: Health Centre visit data fon constructing pie diagram.

Response	Friequency	Pericant rulative friequency	Angles of the secton
Frequent	49	49 150×100= 32.7	49 150×360=117.6
Occassional	71	71 150 ×100 = 47.3	71 150×360=170.4
Rane	24	24 150 ×100 = 24	24 150 ×360=57.6
Never	G	150 ×100=4	G 150×360=14-
Total	150		

गान्यम

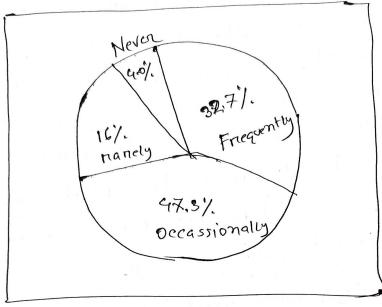


Figure: Pic-diagram.

Graphical prepriesentation of quantitative Data Important enaphs for repriesenting distribution of quantitative data Pot plot

- Histogram.
- iii) Frequency polygon
  - iv) Frequency curve
  - v) Ogive polygone vi) Ogive curive

Histogram: Histogram is one of the most popular and widely used methods for representing a frequency distribution.

In this case, class intervals on class boundaries and the plotted along the X-axis and the connesponding frequencies are plotted along with the TI axis and construct adjucent trectangles to get the required histogram.

Frequency distribution of the number of hours worked per months of 50 workers of a factory.

· · · · · · · · · · · · · · · · · · ·	1
class interval	Frequency
30-55	3
55-80	4
30-105	6
105-135	9
130-135	12
1895-780	11
180 - 205	5
	,

Trequency distribution

or or the

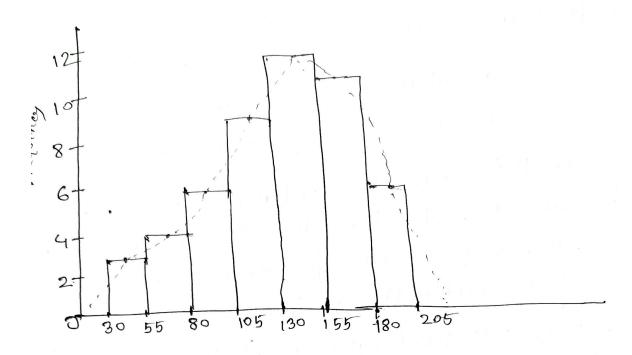


Figure: Histogram for number of houng worked.

(ii) Frequency polygon and frequency cureve from the frequency distribution.

class interval	Frequency ]	midpoints	
30-55	3	42.5	,
±5 ~80	4	67.5	-
80-105	7 6	92.5	
105-130	1 9	117.5	3)
130 - 155	12	142.5	
166-180	11 //	167.5	
180-205	5	192.5	
	11	7	

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