12 May 2024 23:56



# Statistics is oxiginated from

Latin would - "Status"

Italian would - "Statista"

German world - " Statistik"

French wood - "Statitique"

# Definition of statistics

Singular sense

Plural sense

Scientific methods

-> Collection of Data

> Classification of Data

> Presentation

> Analysing the Data

> Interpretation

Numerical facts
collected systematically
with a definite purpose

# Application of statistics

> Economics > Business management > commerce of Industry # Limitation of Stats Deals in aggregates only > Does not real in sted witerway > Not always true > Expert consultation required -> State can be misused # Data smoz toods nortanscopre particular churacter conalitative Quantitative character character 1 " Attributed" Variable" can not be measured Can be measured g -> colour of flower Descrete Continous g > Nationality of a person

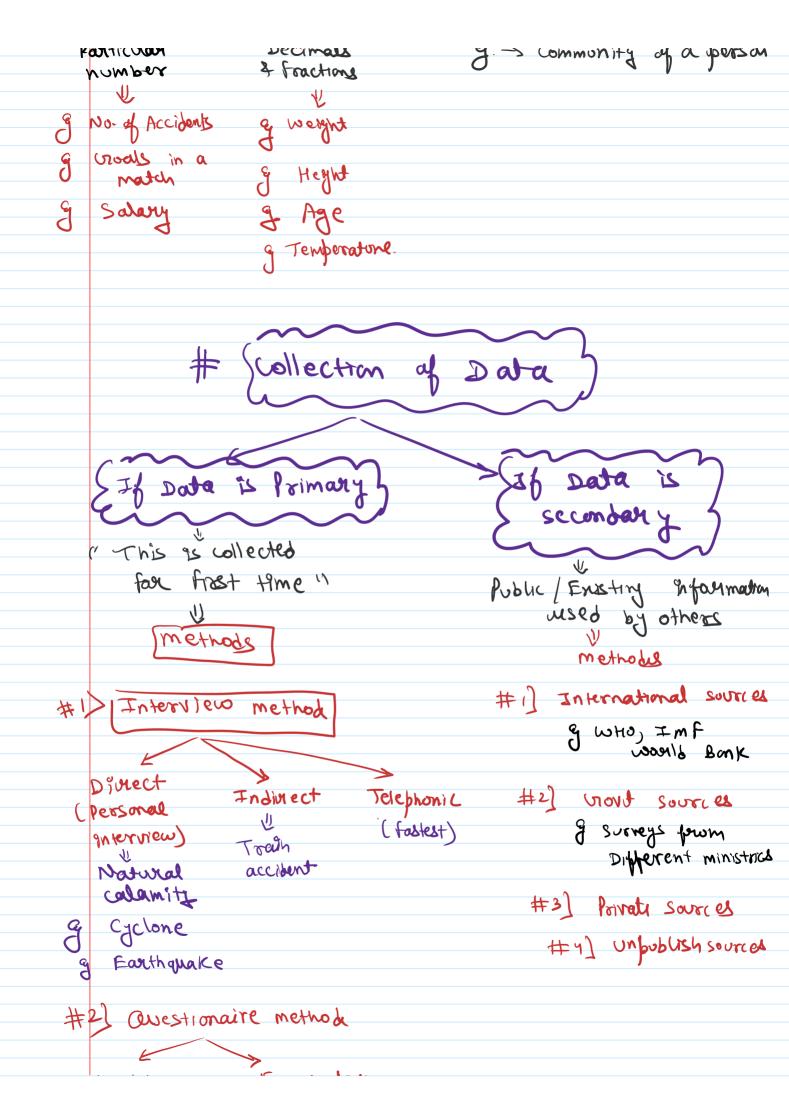
& -> community of a person

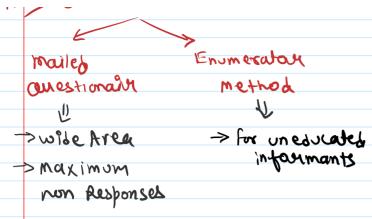
U

Decimals & Fractions

Û

Particular





#3] Observation Method

to gather besta about people, objects, events

2 behaviours etc.

-> Accurate Data

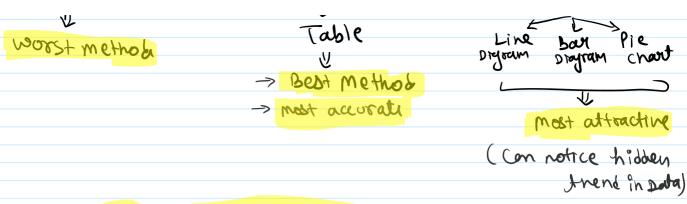
> Time consuming

# Classification of Data

1) Chronological or Temporal - on the Babis
of time

9 Year 2010 2011 2012 Sales 100 120 150

	9 4eay 2010 2011 2012 Sales 100 120 150	
2>	Greographical or Sportfal - on the 1	atten(lace)
	Rice Browner 100 80 120	60
3>	auditative (or ordinal)	
	Coste Rajout Brahman Sigo Population 1000 1200 600	4   SUNN 9
Ч	> Quantitative on Cardinal	
	moorls 1 2 3 4 5 No-afstubent 6 8 4 10 20	
# 5	Presentation of Data	
Paragraph	presentation (Prese	rammetic) entation
worst method	Table Line Box	



## # Textual method

In 2009, out of a total of five thousand workers of Roy Enamel Factory, four thousand and two hundred were members of a Trade Union. The number of female workers was twenty per cent of the total workers out of which thirty per cent were members of the Trade Union. In 2010, the number of workers belonging to the trade union was increased by twenty per cent as compared to 2009 of which four thousand and two hundred were male. The number of workers not belonging to trade union was nine hundred and fifty of which four hundred and fifty were females.



1> Table Number

2> Title (which emplains content of tables)

3> Head note (viven in brackets information about the units)

4> caption - Describes column & subcolumns

5> Stubs - Row Head

6> 3089 of Table - Numeric information

7> Source of Date

8> Footnote - specific feature which is not explained

Table No 25

number of Teachers

Upper part
of Table

includes column f Subcolumn number

## number of Teachers

	Class 11th		Class 12th		
Subjects	male	Female	male	Female	Total
Maths	3		2	2	8
AIC	2	2	3	2_	٩
Eco.	١	1	. 2	1	5
ENGLIN	\	2	2	Ч	9
Total	7	6	9	9	31

Source!

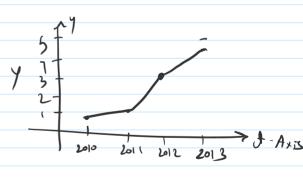
Foot note: new joinels one not perorbed Here.



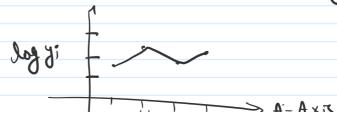
J-J Plane ( There is no X-AXIS)

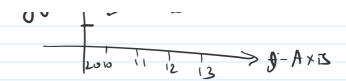
there is of Axis "

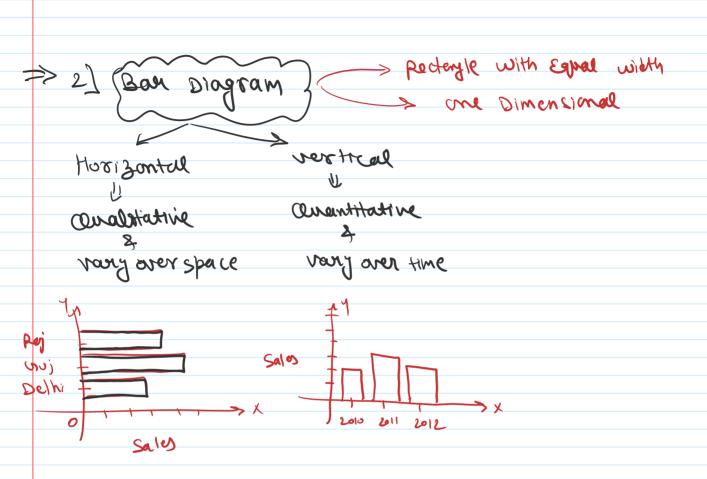
one Dimensional

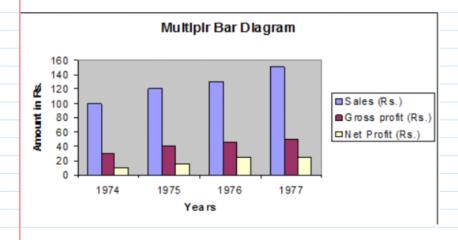


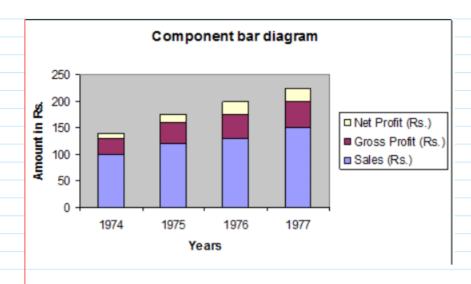
# Ratio chard: when time series have fluctuations we use Radio chart (use Logg;)





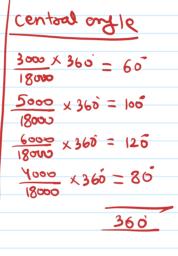


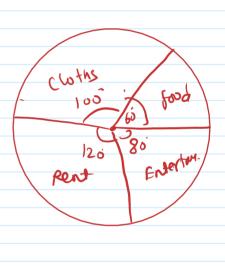




## => 3] Pie chart

Enpense	
food	Z 3000
Clothy	E 5000
Rent	Z 6000
Entertain men	E You
	18000





# Frequency Distribution

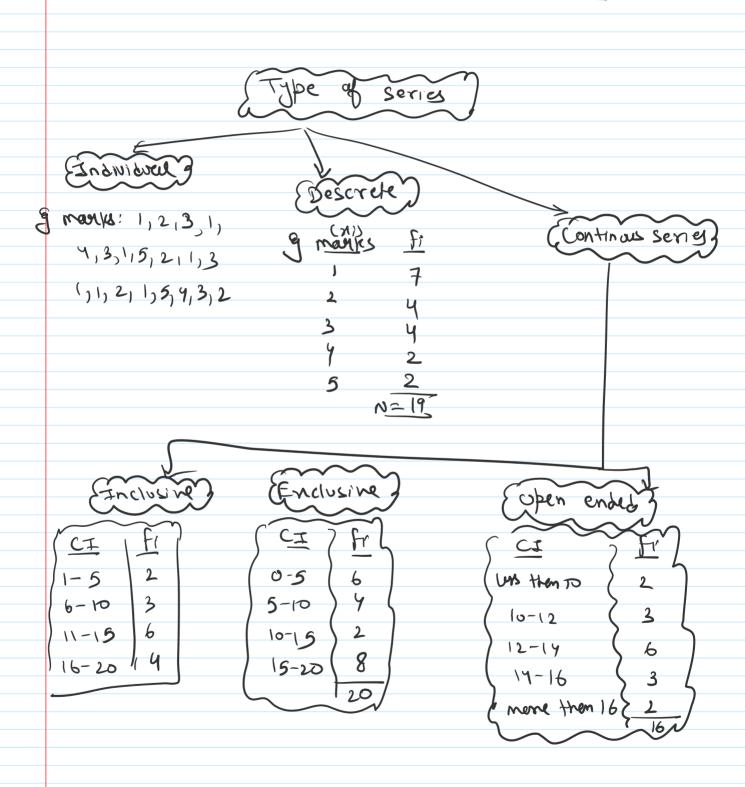
Tobular fresentation
of statistical Data

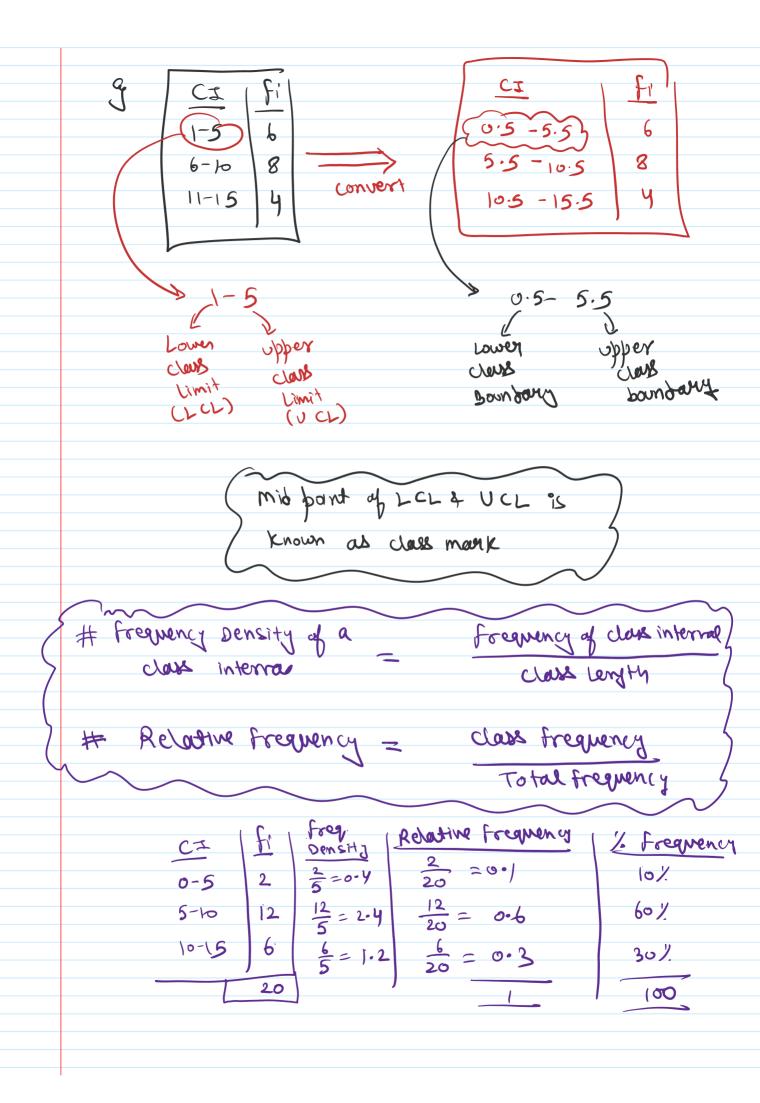
No of Accidents in Lest 15 Days

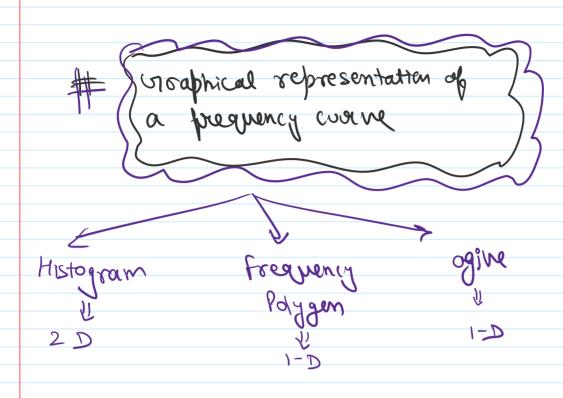
1,2,1,1,1,2,3,2,1,1,1,2,3,2

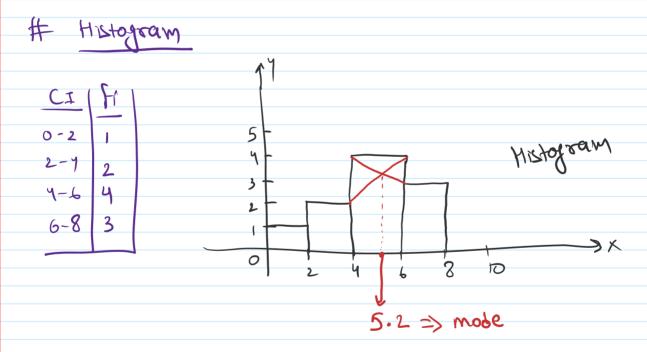
No of Accidents	Tally Bar	Frequency
	HH 11	7

INO & LICCIONIND	(any sar	1. Arriva
1	MH 11	7
2	1111	5
_		2
3	111	2
		N=15

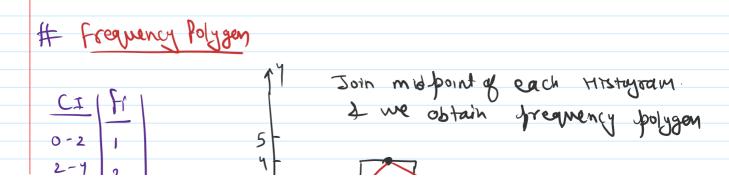


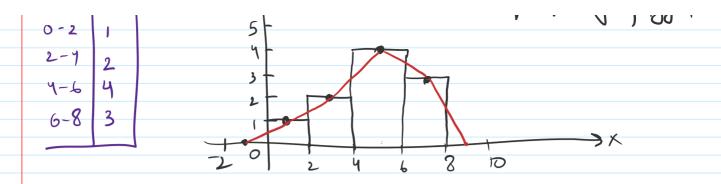


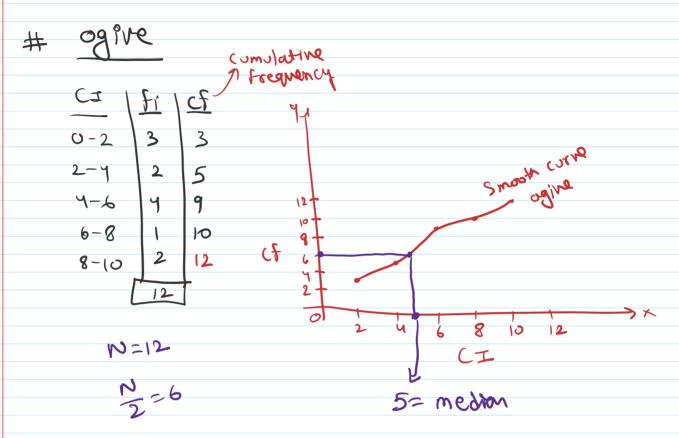




use can find make graphically using Histogram







"we can bind medien graphically using agive"

Smooth course obtained by

Joining midpoind of upper side of

Rectagled in histogram

Area under Frequency course is one unit

