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	Discrete Continue	W.
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-	Source of data	
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	Or 100 or 1	Market Market Committee Co
	PRIMARY	SECONDARY
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	any again orginally	Lowices.
	4 ways to collect data	
	1) Interview   Direct - Natural calo Indirect - Manmade o Telephone - Podcast (9)	vident (1900) p Face to face
14-7	Telephone - Podcast (9)	wickest method)
	2) mailed questionnaire - Georgle for	n (max. non responses)
,		
3	3) Observation — PT teacher	
14)	) Questionnaires filled and — Aadhu Sent by enumerators	or card
- 11	lant his opilmonators	





	Date 5 / / /			
	Sources of Secondary data :			
	· International sources like WHO, ILO,			
	" Grovt. sources like Ministry of Front			
	· Private and quasi - govt. sources like NCERT.			
	· Private and quasi — govt. sources like NCERT			
×	Scruitry of data			
	<u></u>			
	For quality check			
_				
	Presentation of data			
	Tout off Teld			
	Textual Tabular Guaphical/Diagramontic			
	Descriptive method method			
*	Classification   Organising			
^	e makes classes avenue especial things to the			
	o makes classes grouping similar things together			
	Objectives			
	- Simplification and Briefness			
	- Companability			
	- Stotistical Analysis			
	— Comparability — Statistical Analysis — makes data more understandable.			
	Types par Bata Varying over the TIME.			
	- Data Chronological or Temporal or Time Series (Kears)  - Greggraphical or Spatial Series Data (States)  or Data Varying over the SPACE			
	- Geographical or Spatial Series Data (States)			
	Or Data Varying over the SPACE			
	U			

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*	* Frequency data > Time Series -> Quantity   Qualitation					
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Pototo *	Multiple axis chart (multiple data in one chart with diff uni					
	75 = 1		Page No.			

Page No.



- \* Range = Langest value Smallest value.

  \* No. of class = Range

  Class length
- \* No. of class x class length ~ Range

  \* Class Total 115 110
  - \* Class Interval = 45-49 upper class limit (VCI)

    Class Length = 49-45 = 4
- For Continuous variable. Class Limit and Class Boundaries are same and how we exclude the upper limit so it is mutually exclusive.
- > To Convert Class Limit into Class Boundary :
  - m = UCL of a class LCL of a class
  - UCB = UCL+m LCB = LCL+m
  - Discrete variable -> Grouped frequency distribution -> Class Internal -> Mutually inclusive
- \* Class Mid-point/ = L·C·L+U·C·L or L·C·B+ U·C·B Class mark 2

CUMULATIVE FREQUENCY

Less than

more than

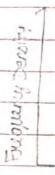


Forequency Density = Forequency of Class Interval Class Length
Relative Density = Forequency Total Forequency
Percentage Frequency = Frequency x 100
Sum of Relative Frequency = 1 [Lies between 0-1]
Sum of %- Forequency = 100%
Graphical Refriesentation of Frequency Distribution
Mode Buquency Listribution
1) Histogram (Class boundaries)
2) Forequency Polygon (Joining the mid-points of Histogram and ends) 3) Forequency Curve (limiting form of polygon or histogram)
4) Oglives / Cumulative Frequency graph (Less than or more than)
4) Oglives I Cumulative Fraquency graph (Les man or more man)
median, Quartiles (Q1,Q2,Q3)
ig ogive
Togive.
8
Class mid point
3 / Baquency curide
it i
Class Interval



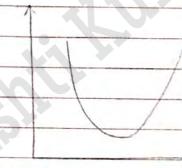
Four types of Frequency Curves:

Bell - Shaped (max. in centre)

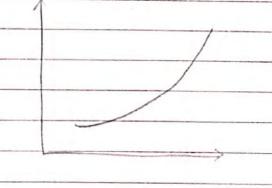


Class mid-point

U-shaped (Traffic) (min in afternoon)



3) J- shaped (Traffic)



4)

Mixed Curve

