Frequency Distribution: Representation either in a graphical or tubular format that displays the number of observations within a given interval (number of observations for Lach possible valve) 3.0, 1,4, 4,12,0,2,2,0,2,0,1,3, Example: 1,2,1,1,3 Frequency Number lobservation 2 (Frequency 3 Distn Table) 1 2 May of Frequency Distribution:

1) Ungrouped Frequency distr => 12, 14, 20, 29, 59

2) Grouped Frequency distr =500

-> displays the frequency of each individual data.

200	10
5-10	
12-20	db
25-30	

I frequency Distribution Graphs:

1) Ban graph:

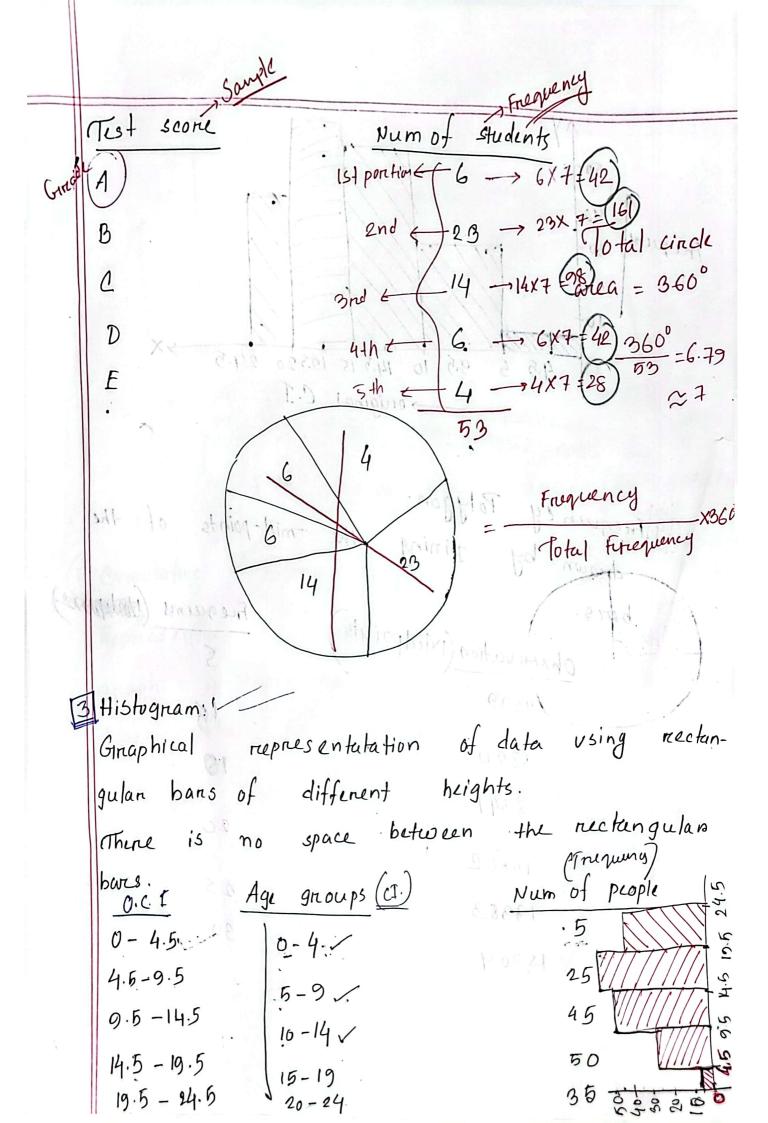
Represents categorical data with rectangular bans with heights on lengths proportional to the values that they represent.

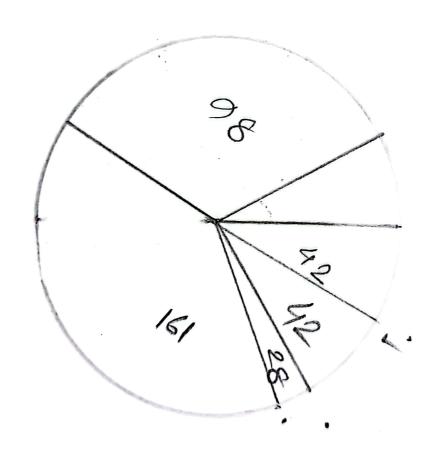
can be plotted horizontally on ventically.

Month	Sales
	170
Jàn	215
Feb	200 + 200
Marc	200 150
April	235
May	190
June	Jan feb Man Ap May Jun

Displays data in a cincular graph.

The entire pie represents 100 percent of a whole and blice represents portions of the whole.





,

frequency bars. drawn Observation (Midpoints 3299 Polygon: prining mid-points meguins

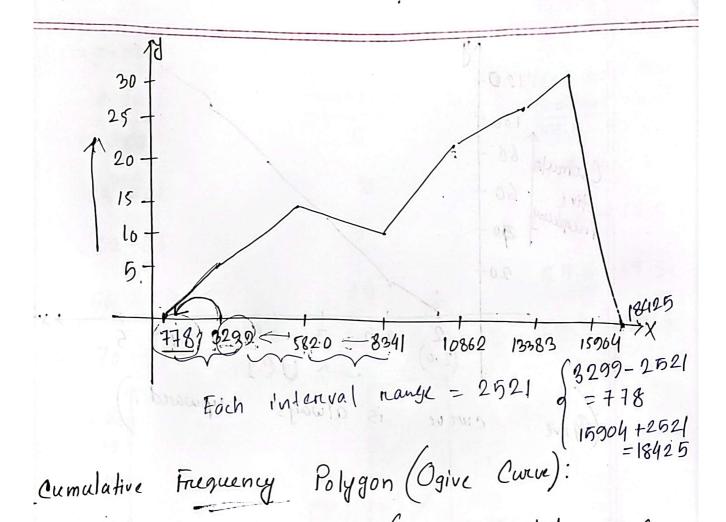
19383

00

8341

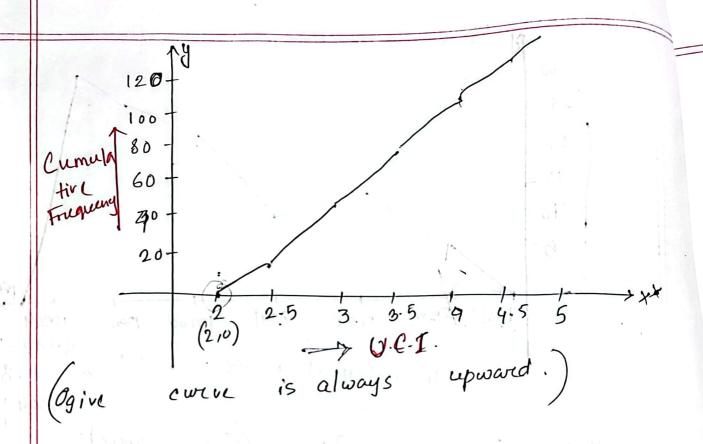
20

5820



Representing cumulative frequency data on a graph is the most efficient way to understand data and derive results.

Wuight	Uppen C.J.	nequeny	Cum	· Frequency
(2)-2·5)	2.5	12	01 - 02 00-	12
2.6 - 3.0	3.0	22		34
3.0-3.5	3.5	33		67
3.5-4.0	4.0	27		94
4 = 4.5	4.5	18		12
4.5 - 5.0	5.0	8		120



costing earnelative

A	- 100 mm	
	vestion	•
Y	UDITUIT	•

<u> </u>	ass Inter	val Fre	nuency
	54-57	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5
āl.∩ 21	58-61	Transmit	5
6.4	62-65		9
	66-69		14
	70 -73	·	7

a) Draw Histogram. From this table.
Show
b) Frequency Polygon and Ogive curve.

Soln:

53+54 53+54 2 53+58 2 53-5

	THE RESERVE AND ADDRESS.	1
HIST	ogream	

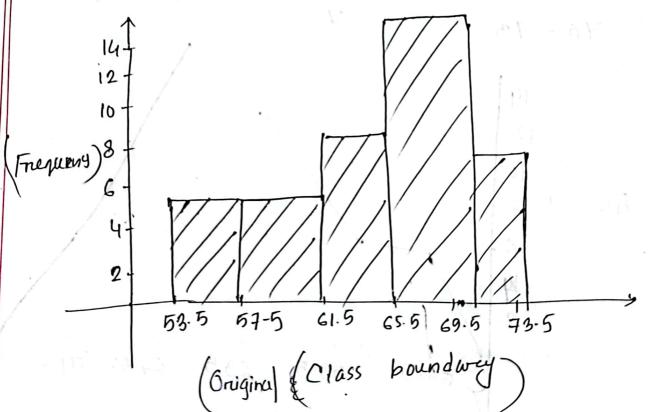
	C.	q.	Ů,
5	4-	57	

Frenuency

MOPHOT

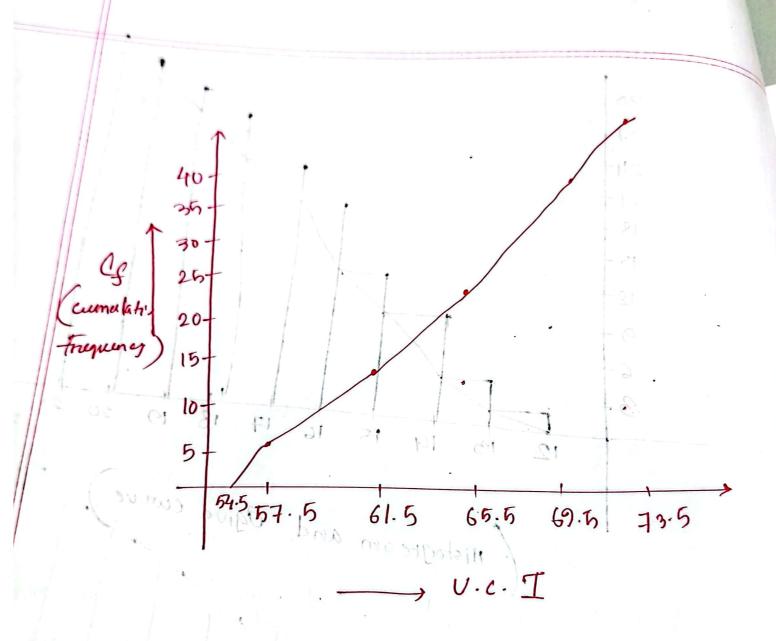
9

Class boundary
(Orviginal class)
53.5-575



	li ita		1	( 10	66	
		7 (Line	graph	of cla	wency	
proba	Frequency	Polygor	And the second s		againt class	midpoiut.)
closes + 5	C. I.	40	Frequency	, **	Mid po	lut
31.5	54-57		5	•	56. 59.	
68.5	58 - 61		· 5			
5.69	62 -65		<u>)</u> 1	•	63.	
3.8F	66 - 69		14		67	
	76 - 73		, 7		1 - 41	. 5
	147		/		101	
	Frequery 8-				1000	Il su
	. 4+		212 6-	50.5 61	. 2	1
		55.5	59-5	63.5 6	7-5 71.5	76.5
	\( \sqrt{\lambda} \)	_	→ (Mi'dpo	n'n#)		<b>V</b>
	. Pravio midpoi	al of				post mj'dpoint
	This a reaph	on free. wo points	Rolygous C with Ut	Connect -1 there midle	hy's points.	71.5

beigins on the horizontal at the lower dass boundary of the first class. Curve : Ogive C. Uppe bou Frequency Cumulative 0.6.1 4.5-57.5 61.5 57.5-61.5 61.5-65.5 62-65 65.5 33 65.5-68.5|66 - 69 14 69-5 40



			,		ged was			
	Problem	]			; 5	V160 S	DV-(D)	
	Tempe	reatu	rie (°c)	or to the	requency	1 1		
		12		9	2	1.9-	10	
		13		$\bar{g}$	63.19	1.5	- 83	
		14		0	28.83		- 62 -	
	56	15		PI	6.00		- 382	//
	40	16 17		1	3,00		oF :	
	1	18		,	G	1012	OL 15	1
		19			1	- 32 .		
		20			2	20-		
		21	2		1	-8)		
	Dreaw	a	cumulati	ve i	nequency		togkan	1
	and M	The second second	conve for	the	data o	n the	same j	SID+ ".
+	- OF 69	11 -	769 9 9	(A)	Frequency	1	Cum. Fr	inequerry
Ŀ	som!	(10)	mp(·c)		1		0	5
	ou ( (4.)	7	13 - 19		2 G		, 1	
	T		15,		2	- N		7
	ph ph		16	-17	3	- 8	7	-0 26
	5	) /	18 -	→ 20	.6	-1	2	27
	<u> </u>		20 -129	727	2			29 30
			21	1	1			50

