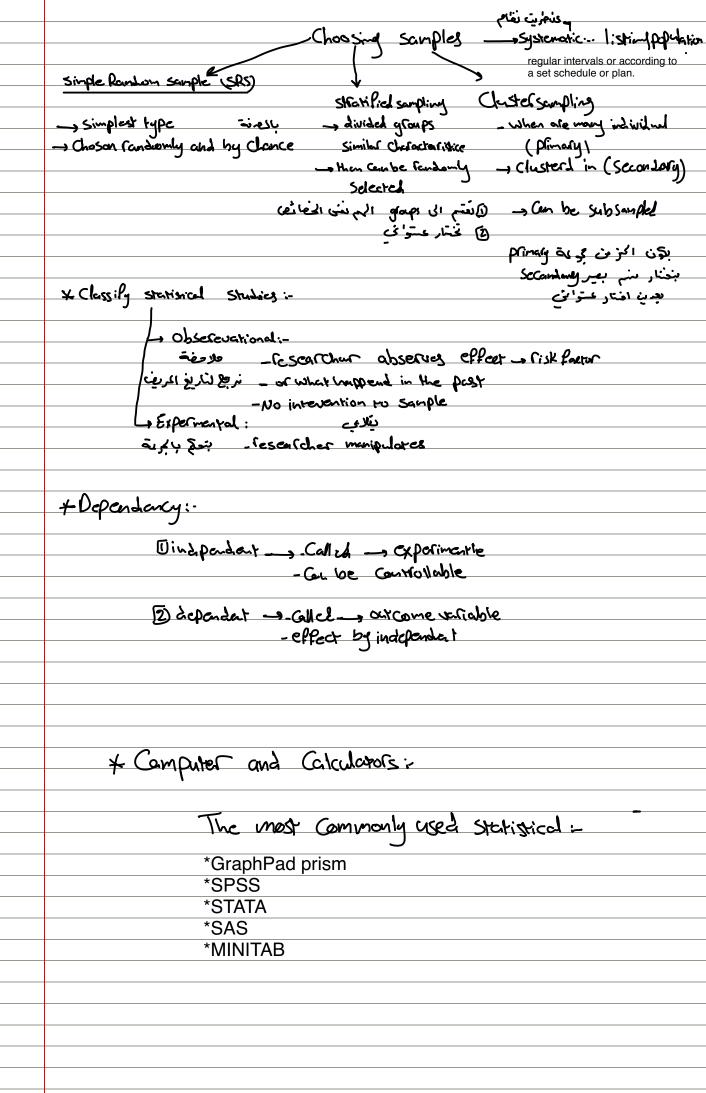
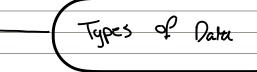
* Steakistics:
-What is Statistics:-
غين تلخبه لنظيم جع ي
-> Scienc -> Collection, organisation, summarisation, analysis
Drawing of inferiors
العلية المورينين مع البينية المعلمة البينية الله عنه الله المعلمة الله المعلمة الله المعلمة الله المعلمة المع
لكا اخر خيث Conclusion (الدستنداع)
note:- Statistics -> producing analges + Predictions -> by offening Critical guidance
الدمهاء ہے بقدم عمیں و تنبر سینات ہے اللعم ادمان و مهات ناقد لا تھد کلی رائی التخمی
Pields of Statistics
Business Science Psychology Pharmacy Medicine
Business Science Psychology (Pharmacy Medicine)
Biostatistics
Conclusions Droblem
Conclusions Project
Staristical (ycle
analysis plan
Dova
Branches of Statistical
Descriptive:- inferences:
Sampledata car resin *
population
Collection, Organisation,
Summalisation, analysisdaw Conclusion

+ Vocabulary of skatistics:
population: - is entire group, Collection all items
مِي عِي عَهِ العناصر تَبكَل مِمن الحراسة , لا يوكن افذها كلها
Sample: is subset of the population
رف افخا حف اول population ال حق عبد يمه عم عبد يمه
Sample Should be Selected represent whole population and un biasel
افتیار عام العنام معتلی کل معدم المعام ما عنر انحیاز لفای معینه
Data: - the law material of statistice sleads while of
Observation or measurment is less the
There are 2 Type of wambers
Data obtained by: (2-4):-Patient in hospital
D Surveys D Experiment B Routinely & Externel resources
العدة العلام الحياد العلام الماد ال
2 Type: - D Gualitarive: - Not moasurable
5+ 1- (female, male)
Blood groupe (A,B,O)
عنین عنین الله الله الله الله الله الله الله الل
parameter: describing some charactistic of (population)
- Statistics: basis information of Sample
* why we study sample lather than population: i un ais air,
II & less Gst Jul = ID preservation from loss
B) save time & Mole accuracy (5) population is software)
12 June 11me 12 1-1016 acciding 12 toholidator 12 20 holy





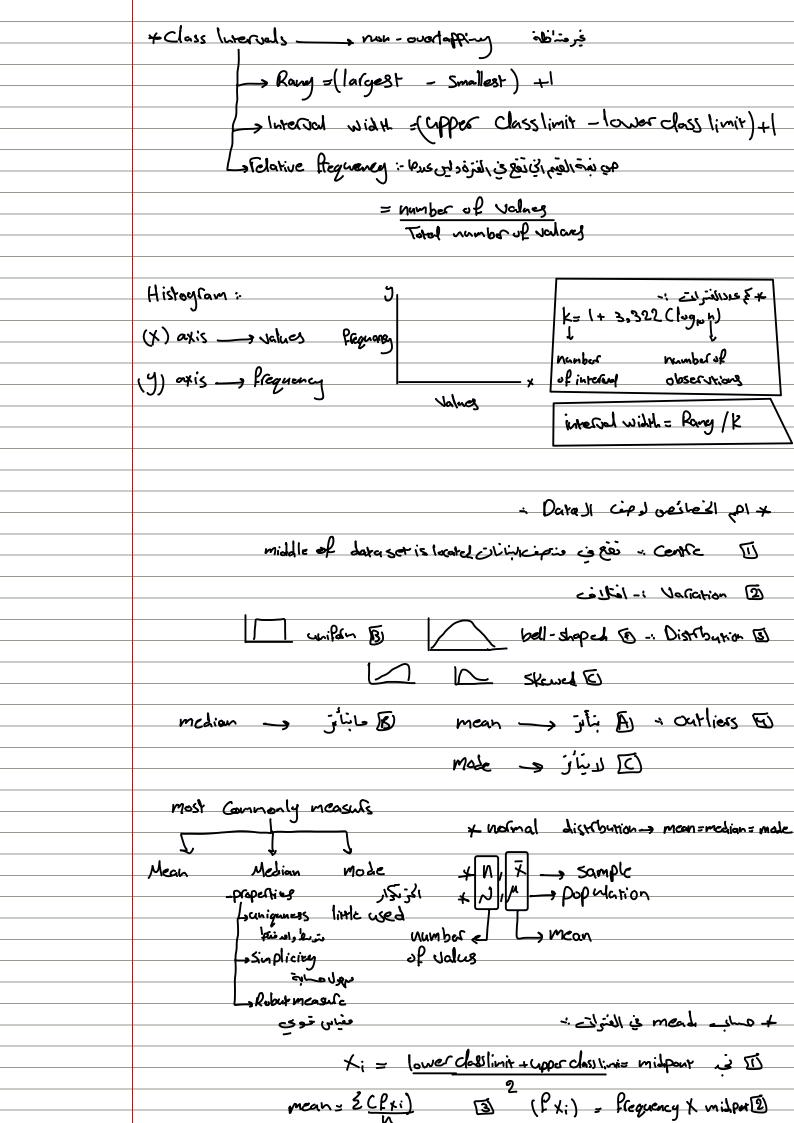
Qualitative Quantitative Nominal ordinal Continuous Dischare - Staction accepted - Arction not بنعمد على الرتب - ما متعقد على الترتث محدوه متوله الكور عير فعوله androni ordered Ex:-£*: third amount - female, male -degree of pine -Grade of malignaly - hair colour -LOH -toxicies ofales Munberaf _ B.P _ Cholestelul Crimes - (T, Time, weight...) . Concentraion of florid in wever

* Relative frequencies = Observation(n) Total Relative frequencies = 1 -: note

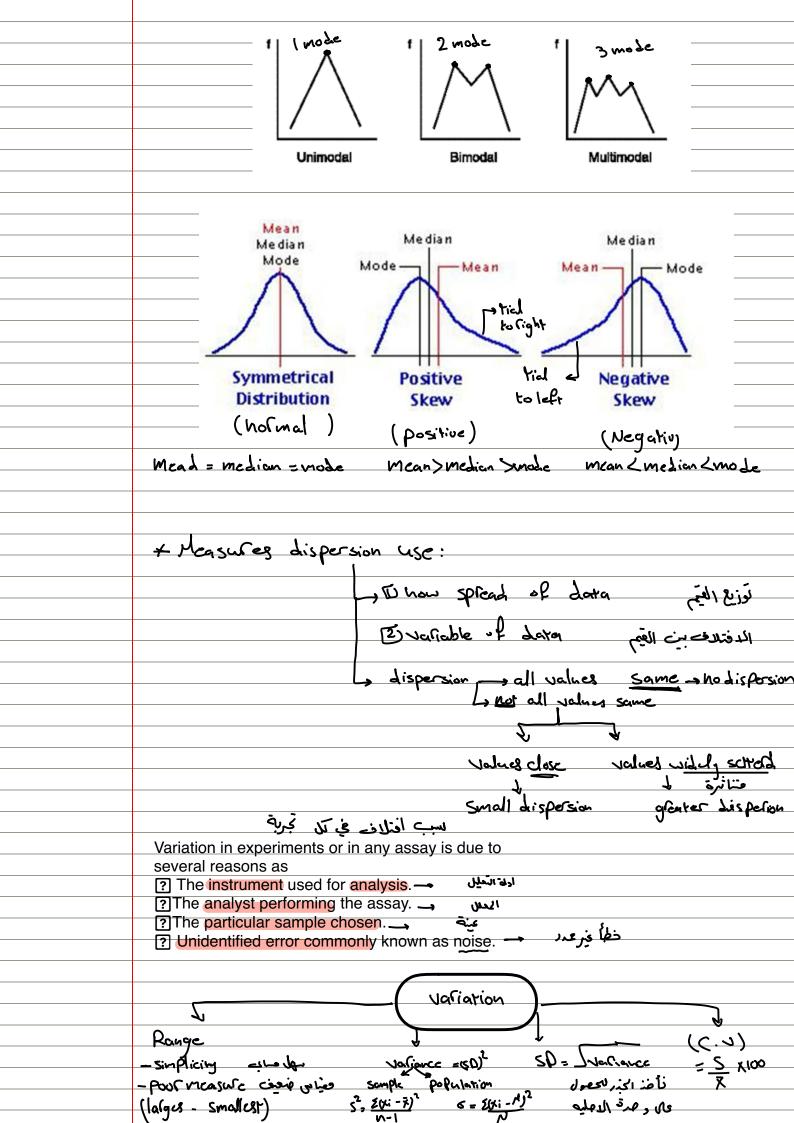
* Cumulative frequencies = The Relative frequencies before + N (observation)

<u>Toxicity</u>	<u>N</u>	Relative <u>Freq</u>	<u>Cumulative</u>
			<u>Freq</u>
None	68	.34	·34
Mild	92	.46	.80
Moderate	24	.12	.92
Severe	12	.06	.98
Life-threatening	4	.02	1.00

+ Note: Ordinal data ____ Con also use parcentiles divide distribution equal orunequal properties of the contraction of the con

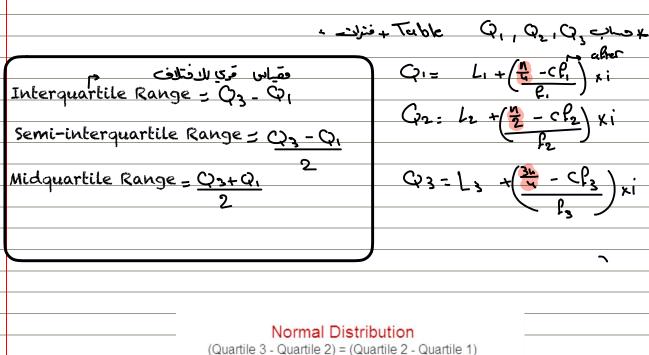


	-: تابت نبر Table نع Median بس ×
	median: Usus aid up [3] (Cf) Currelative frequency ester [3] Cf = 12 or cf > 11 Total & Zof Prequency - 22 = 120 [3]
	CF = 12 of cf >11 Total = Zol lieguarcy In =10 [2]
_	2
	-: Cijiel is McLian cho x
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_	first class have: Cf=12 orchang (Cf) Currelative frequency esho I)
_	median = Lm + (2 fill) Total & Zol linguage 2 = 10 [2] liminal for class
_	CP befor class 2
_	fof dass
_	
	mode: all voles and different -> nu mode [x: 1,6,7,10,12
	- all hold ard different -> In more Ex: 1,01 / 10 / 15
	- these are more then one mode - Ex. 1, 2, 2, 6, 4, 9 unimodal bimodal multimode one mode 2 mode more than 2 mode
	unimodal bimodal multimode
	one mode 2 mode wore then 2 mode
	-Plopories:-
	یلون نردی اراکن نردی اراکن نردی اراکن نردی اراکن نردی اراکن نام نام نام نام نام نام نام نام نام نا
_	2 Pobest measur es si unio
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	3) describing gualitative
	bur (mead + median) - Calculated quantitative
	.にこれ .
	(f) mode class -(f) class before -: = i july ce mode - 100 x
_	
	$mode = L_m + \left(\frac{\Delta_1}{\Delta_1 + \Delta_2}\right)_i = 0$ $limit = \frac{\Delta_1}{\Delta_1 + \Delta_2}$
	(f) mode class - (f) class after -
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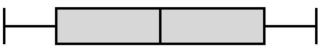


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اله وحمة نفى وحمة الماعله طعاده الماعله الماعل ا
Tualation, TSD ©
د م ب برخرف البندانة بالتعديم في المسافلة م
hse to compere the dispersion in two sets of data
·
إنه مفيد في مقارنة النتائج التي حصل عليها الأشخاص المختلفون الذين يقومون بإجراء تحقيقات تتعلق بنفس
Uint of $X = Uint of SD$ SD $xi00$ SD
\overline{X}
5xi 5nl 3ml
5 mt
عسب SD في الفتران :
·
Xi = lower dasslinit + upper classlint = milpout is II
2 (PX;) = Prequency X milports
·
کے عمادے کے ایکا تھویمی باہادیے : کے عمادے کے ایکا کے انہادی کے
· · · · · · · · · · · · · · · · · · ·
$SD = \frac{2 f x^2 - (2 f x)^2}{v}$
N-1
NA
Measures of position. _∸
are used to describe the relative location of an observation
و صف علاقة الموقع بالبيانات
Чрит
+ Quantiles system - Livided to quartiles + oldering
U E B FI
Q, Q, Q,
<u> </u>
Eximetian, quantiles
LUSCFUL Where these are quite
- useful where there are quite - large number of observation
La number of quentiles -, number of langes of data
N N+
4 quartiles - 4+1 = 5 ranges





(Quartile 3 - Quartile 2) = (Quartile 2 - Quartile 1)



Positive Skew

(Quartile 3 - Quartile 2) > (Quartile 2 - Quartile 1)



Negative Skew (Quartile 3 - Quartile 2) < (Quartile 2 - Quartile 1)

Rana alkhawalda



$$\begin{array}{rcl}
\angle (x_i - \overline{x}) &= \angle x_i & - \angle \overline{x} \\
&= \angle x_i & - w \overline{x} \\
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