(B)		
03/04/19		
3 SUMMARIZING DISTRIBUTIONS		
A) CEMBAL DENDENLY:		
1) what is Central Tendency?		
- which of the unter of a distribution - comparing individual	ownes todice	
- 3 Definition by untra tindency:	. 1200	
	1,00	
*) Abs. biff fim - point at we dist is in palance	Godo Soulists	
LOK HUY 3		
	CE IN	
*) Syd Diff pemo - not really fre		
- not really fire when to place the pulcoum		
(geometric middle)	and the second	
asymmetric distribution		
3) smallest absolute Deviating		
- number for who the aum of abortute deviation is a smallest squared periation	mallest	
	A	
*) Balane sull simularm	Umo producty,	
- Positive stew: mean > medjan		
Dalanus at mem		
- Balanced pan shired = milin = median		
- Negative sun men < medicin		
Dalanus on the meen		
- Bimodal Dist: Oal Pt = mem		
- it the center of a distribution defined at the bal an		
the mean is at the centre of the distribution	il pri then	
2) measures of untral tendency		
1 Prithmetic mean		
$M = \frac{\sum X}{N}$ Egumeric mean		
M = S. X	HEATEN STATES	
M = SX	0.00	
@ median		
- midpoint of the distriburm - same to of owns aboves	an only	
5 The for which	ANNOW IT	
- mean of 2 middle 7's		

03/05/19	
B) VARIABILITY	MINIMA BINA
- now much the #1 in a dist differ from ear	ch other
1) what is variability?	Legisland Control of the Control of
- "spread" of stores	and the district
wanabiny, "spread', dif	persion.
- measures of variationing:	1,0
() RANUE	The state of the s
highest lowest = run	nge /
store store	
DINTEROUPRTILE RAMOE:	THE STORY THE RESTRICT
· range of middle so 1. of	acores in a dist
IOR = P75 - P85	MORE THAN SECOND STATE OF THE SECOND STATE OF
	VERSONE IN
"H-s pread" upper hind	
" SEMI-INTERQUERTILE R	ANLE:
) IOR	
	hant
- symmetric dist: sill	OR contains 50% rures in dist.
3 VARIANCE	
"how close the grates are to	the middle of dist"
52. 5 (X-M)2	
N	sample
2 (4 , 2)2	
$S^2 = \sum_{x \in X} (X - M)^2$	- population var.
N-1	- popularing.
N	1: mean obsample taxm from
The state of the s	popul men M
ofher formulas.	ASCARDA ANTENNA
$6^2 = 2x^2 - (2x)^2$	200545 7 1615 3 1945
N	THE PARTY OF THE PROPERTY OF CE
	21 - 1 (2) (2) (3) (3)
(5)2	the state of the s
92 EX2 - (EX)2	

N

N-1

4 STANOARD OFVIATION

- · square not of variance
- · We put when dist is normal or approx normal bec. prop. of dist win given # of SDs from M can be calculated

() = population 80

S = 8ample 810

& variability simularm

& VARIANT ESTIMBING SIMULAM

2) shupes of Oithouths:

- numerical indexed for medano of mape

1 SKEN

- large positive slaw - mean > median

· pearson numerical indux of nor?
3 (Mean - median)

· third moment about the mean:

 $\left\{\frac{(X-M)^3}{6^3}\right\}$

(2) KURTOSTS

(X-M)4-3

e homal distribumi =

#) comparing of mother simulation

3) Effects of Linear transformating:

- if u varix has mean M, on or or and var or 2, then new vari Y created using likear frams yoursom

Y=bX+A

will have mem by the sp bor bor bor bor



