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ID: 14103

Subject: Basic Statistics

Instructor: Sir Raza

6th semester

MAJOR ASSIGNMENT

Q-1 Take 100 observations randomly & construct the followings:

1. Discrete group frequency distribution table
2. Contentious class boundaries table. 102,406,8,10,12,15,17,4,8,9 10, 26, 25, 26, 15, 6, 8, 25 81, 27, 9, 10, 9, 36, 21 双, 24, 32, 35, 38, 71, 18,13 12, 10, 25, 31, 26, 23, 4, 35, 25, V1, 18, 9, 46, 34, 27 28,38,46,36,11,2,8,7,24,26 16,36,20,17,23,9,6,4,36,9 10,15,16,17,25,31,26,17,9 40, 24, 10, 8, 6, 5, 7, 10, 56 48, 42, 41, 40, 39, 35,31

			2					
	24 · 14 · 20 · 18 · 49.							
	Discrete Group frequency table:							
	Class	Tally Marks						
	1-10	THE THE THE THE TANK	33					
	11 - 20	ווו אא ואא ואא ואא	23					
	21-30	THE THE THE THE	23					
	31 - 46	un un un	16					
9.	41 - 56	MI	5					
			£ = 100					
		Class Boundries						
	1 -10	0.5 - 10.5	33					
	11 - 20	10.5 _ 20.5	23					
	21-30	20.5 - 30.5	23					
	41 -5	40.5 - 50.5	5F=100					
			124.					

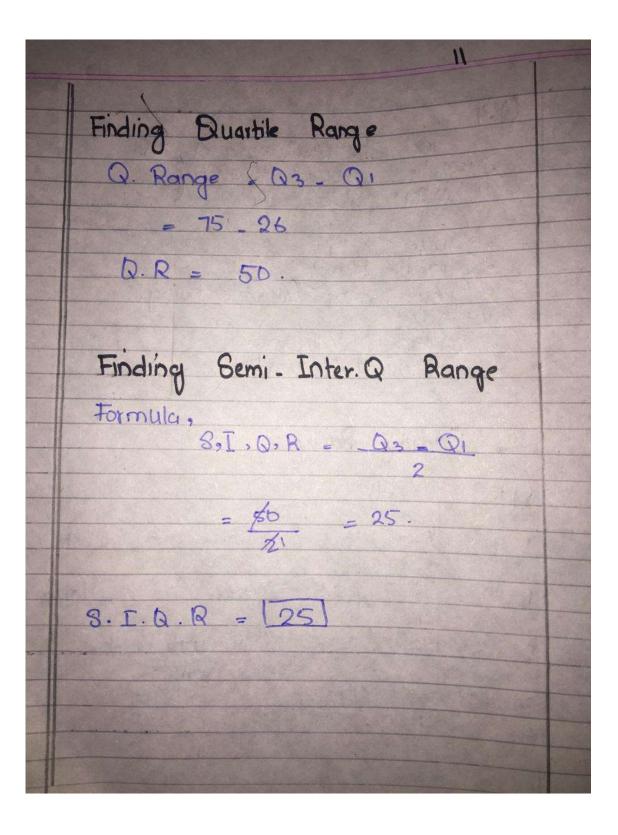
			3				
> Discre	te group fire	quency tab	le				
A	pplication fo	r class bou	ndines				
	· A/						
LCB = 1- 1/2 = 0.5							
ucı	3 5+1/2	= 5.5 " 1"					
0 0	89.31	79 29 Sept. 199	·				
distribution	table:		ntioned frequency				
· Arithmetic Mean							
Class 1-10	Frequencies 33	Mid point	Frequency, 181.5	Mid			
11-20	23	15.5	356.5				
21-30	23	25.5	586.5	-			
31 - 40	16	35.5	568				
		11-	100 2 9 9				
11 56	I	145	1 207/	1			
11-50	5 EF = 100	45.5	227.5				
11-50	5 EF = 100	45.5	227.5 25m = 192				

A.M			E 34
AM =	2f x	1 3 C 1 1 2 4 4 4	0 29 30
	至		
- 10	120		
	00		
A:M.	= 19.2		
· Geom	etric Mean		THA HIS
Class	Frequencies	Mid point	F. log (2)
1-10	33	5.5	33 2 log(2)= 24.4 27. 33
21 - 30	23	15.5	32.35
	16	35.5	24.86
31 - 46	5	45.5	8.29
41 - 5		13.0	
	ZF=100	13.0	5) loots
		13.0	27.10gt2
		13.0	27.10gt2 = 117.24

5 9.M G.M. - Antilog = Anti log 117.24 100 1.1724 - Antilog 4.M. 14.87

LI20:40:40									
THEN	HARMONIC MEAN								
Class	Frequencies	Midpoint	f/m						
1-10	33	5.5	33/5.5=6						
11 - 20	23	15.5	1.483						
21 - 36	23	25.5	6.961						
31-40	16	35.5	0.456						
41-5	5 ZF=100	45.5	5.109 2F/m=8943						
37.8.4									
HM									
$M = \frac{2f}{2f/m}$									
5	= 100								

lass	1.		
1-10	33	33	To find the medium we have
	00	-	
11-20	23	56)	to make a
01.00	00		table of Cf.
21-30	23	79	Taxanda
31-40	16	95	Formula
31-90	10	43	Madina 1/a)
11-50	-	106	Medium = $\frac{1}{2}(n)$
11-50	3	10.6	1 /100)
	25-=108		= 1 (100)
	2 - 100		1KN 50 4
			= 100 50 50
			medium
			The state of the s



1)				12			
Calculating Variance							
1 7	F.	Mid Point	F. 2	mean 2	2-2	(m-ñ)2	
1-10	33	5.5	181.5	19.2	-13.7	187.69	
11-20	23	15.5		19.2	-13.7	13.69	
21-30	23	25.5		19.2	6.3	39.69	
31-40	16	35.5		19.2	16.3	265.69	
41 - 56	5	45.5	ZF = 1920	19.2			
$2f = 100$ Variance = $S = \frac{3f(x-x)^2}{2f-1}$							
= 15131.03 = 15131							
Variance = 152.83							
			The state of the s				