F-TEST ASSIGNMEND Dator on no. of teansactions. 134, 202, 236, 198.187, 144 199, 143, 165, 223 Mumbai: 345,332,309, 367,338, 312. Apply 6- distribution to find out variance? Idn Hyd n = 11 Mum n = 9 $f_{\text{text}} = \frac{S_1^2}{S_2^2} \quad \text{where} \quad S_2^2 > S_2^2$ Vocione $S^2 = \sum_{n=1}^{\infty} (n-x)^2$ $\hat{A} = \frac{\sum u_i}{m} = \frac{2121}{11} = 192.81$ $y = \frac{5y^2}{n} = \frac{3102}{9} = 344.66$

	Mumbai	(n-n)	$(n-\bar{x})^2$	(y-y)	(9-y)2	-	
Hyda	345	-36.818	1355-57		0.111		
156	332	85.181	7255,94	-12.66	160.44		
278	309	-58.818	3459.57	-35.66	1272.11		
134	367	9.181	84.305	22.33	498.77	· ·	
100	338	43.181	1864.669	-6.66	44,44	_	
- 236	2.12	2.181	26.85123	-72.66	1067 -11		
198	312	-5.818	33.8512	16.33	106.77		
187	363	6.181	38.21	18.33	336.11	2	
199	3812	-49.818	2481.8	36.33	1350.11		
165	Mean m	-27.818	773.85	-4	4 1 6		
223							
		3					
> (n-1)2 =	17374.	69 2100				
Z 1.	-4)2 =	3485.	388		Į.		
$\sum (y-\bar{y})^2 = 3485.888$							
$S_{x}^{2} = \sum (n-\bar{n})^{2} = 17374.69 = 1737.46$							
3485.888 = 435.736							
$8y^{2} = \frac{Z(y-y)^{2}}{8} = \frac{3485.888}{8} = 435.736$							
$F_{\text{test}} = \frac{3n^2}{\text{Sy}^2} = \frac{1737.76}{435.736} = 3.9879$							
test 5,2 435.736							
The second secon							

de (0°) = 11-1 = 10 df(v2) = 9-1 = 8 Flest (df = 10, df = 8) = 3.35. Ths F-test = 3.35 < F calc = 3.98, hence we reject Ho. So, the no of customers in her new branich is more variable than the no-of customer she used to work. PRODUCTION LINES. Let $\mu_1 = \mu_2 - \mu_3$ bethe mean of the 3 production lines. Please Lest the hypothesis & = 0.05. Ho = M1 = M2 = M1 Hz: Not all ps are equal. d= 0.05

step 4 Foritical (de = 2 d=15) = 3.68. Line 2 Line 1 Line 3. 180 210 145 160 215 170 205 195 165 190 180 160 175 170 155 190 155 1175 1020 970 195.83 175 Mean 570670.88 = Sum of sq of allmos - 570670.83 3254 . 16667 .

3 POPULATION - MEN & WOMEN

Randomly select 7 women & 12 men.

from a population of women & men.

Jable shows the SD of in each sample
and in each population.

	0 -			
Pop	Men	Words		
PBD (5)	50	30		
SampleSD (Sa)	45	35		
Compute	f-stat	tistic .		

S. = sample SD;
$$\sigma = \frac{100}{100}$$
 SD.

I statistic = $\frac{31^2}{67^2}$

Considering women's date in numerator

I stat = $\frac{35^2}{150^2}$ = $\frac{1225}{900}$ = $\frac{1.68}{2025/2500}$ = $\frac{1.$

Also, CP = 0.221; } Fstd=0.59, 29,=11, 22=6

F HIGHWA	9 GAS MILE	496				
Summary of highway gas mileage for several observations, to decide if the average highway gas muleage is same for midsize cars, sur: I pick up truchs.						
average highway gas muleage is same for midsize cars, sur: & pick up truchs.						
dest the						
N	Mean	Std Der.				
Midsize 31						
Suv: 31	22 · 68	3.67				
Fichups / Ly	21.29	2-76				
80 m Styl Ho: 4= 42= M2						
H, : NA all means are egadl.						
81ep:2 x = 6.01						
Step-3 def setwen = a-1 = 3-1=2						
durin = N-a = 76-3 = 73.						
Step-y For x=0.01, da, =2 & 2=33,						

Ferifical =

		1				
	Count	Sum	Avg.	13D/Vae		
Midsie	6 31	25.8 x31 = 799.8	25.8	2.56 6.55		
SUV	31	703.08	22.68	3.67 13.46		
Picky	14	298.06	21.29	2.76 5000		
	4			(Sa) 7. 61		
				AVIDS		
SS between	= \ \(\)	(Zai)2	T2	1		
		γ	- N			
	= 70	19.82+ 703	1.082 + 2	98.06 - 44429.92		
12,22,841.29						