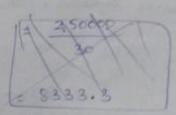
## 1, ANOVA

Ther		15 Va	Var 2	
×	× 2	×	× 2	
27	729	63	3969	
#3	1849	43	1849	
64	4096	52	2.764	
62	3844	58	3364	
44	1936	54	2.916	
54	2916	50	2500	
57	3249	65	4225	
49	2401	53	2809	
31	961	43	1849	
69	4761	49	2.401	
500	26742	530	28586	

Van 3	
×	×*
52	2704
60	3600
37	1369
10	1600
23	529
39	1521
55	3025
52	2.704
43	1849
39	1521
- 440	20422

(i) Covoction tom:  

$$C_{x} = \frac{\sum (x)^{2}}{n} = \frac{(5\infty)^{4} \cdot 530 + 440}{30}$$



= 26742 + 28586 + 20422 - 72030

= 3720

(iii) Some servers among Santy.

= \(\frac{500^2 + 530^2 + 440^2}{10} - 72030\)

(25000 + 28090 + 19360) -72030

= 72450-72030

= 420

(iv) Sund squares within groups:

= 3720-420

(a) I bow of sum of squares a word of surps .

MSSA = SSA K-1

: 426 210 3-1

(vi) I band sum of squares within graps

MSSW = SSW

330

= 12.22

(iii) F-Patro:

MSSA = 210 MSSW 12-22

= 17.18

Calculate 2 - Value

Source of all

SS Tho

下ったよ

Compare F. Portion with F. Table

14/169 16-15

Lithin gaps N-4027 3300 12 22

From F-table

2.51061

Among groups 12-1-52

H20

210

| h | -

40 of = 164 95-1- : 1.96

1.076

99-/- 2.58

7 = 0.929

So, 10 90-10 confidence intornal 1.64 is a

Value of 2

Hore, the calculated 2 Value 0.929 2 1.84.

So, the mull Hypothesis, He is accepted.

. The national away describes the mean Commuting distance for all wolfers in Nowtonk was.

	6)	1
	N. C.	
n T	woon.	
15		

reject mill Hypothesis and Accept Alternate

17.18 is grata than 2.51061 xs.

Hypothesis

n = 169

F = 15

He # 15

0 = 0.10, 90 -/o Confidence

9 11

X = 16

S) Griven FC 105 H = 105 A = 14 H. > 105 n = 25 , do = n-1 = 24

\*= X - PL 14/525 125-105 5/10

14/5

2.0 - 20

t= 7.14

From t-table, The Observed Value between = 1.711 24, 0.05 is

> So, The mill Hydronia is wrong 7.14 > 1.211

So 20/00 16 = 105

Hore, the book Cohamonant went museus

(niver:

O = Wariance

Solution:

X = 125

Variance = S(x=-p-)4

(100-5-100-83) + (101-3-100-53)+ (99-5-100-83)+

(986-10083)+(104-100-83)+(1031-100 83)+

+ (105-10-83)+ (99.8-10-53)+(956-10-53)" + (102 4-100 83)6

0.1

-0.1089+0.2209 +-1.7689-4.9729+10.0489+ 5-1529 +01089-1-0609-4-9727+2-4649

0 - 505 n=10 do{=n-1 = 9,0.025 x = 0.05 , Q = 0.02 5 0 - 0.707

マーナ・「一生」という

100.53 - 2.262 \* 0.707 4 100 £ 100.83 +2.262 96.568 \* 6.767 ≠ 100 € 103 \* 0.767 3.16 \* 0.707

98.568 \* 0.22 = 100 = 103 \* 0.22

21.6 4 100 4 22.6

F inemial			15.05 12	17.01 2	5.07 2	19 5 3	8-16-6	10.38 107	6.75 4	90.68
Lak	3 ×	118.1	226.5	9 53	25.7	350-2	5.99	77	5.54	2 57.1
Fres.	×	12.72	13.91	6.943	11.19	18.79	20.73	9.6	17.4	1257.1 110-77
KRO	oux .	1617	1934	41 3	1252	35306	429.7	91 16	302 7	1699.2
- Una	×	88 11	5 86	13 45	30	39.50	3 44	7.11	15.7	71.3
Contract	X	1-141	12 (1)	1.185	10.36	15 16	1 00	50.05	246.4	778-81

(\* Karation ton:

= 751487.5

Cx = 3145.3

