

ANOVA one way statistical test

H0 : Temperature has no influence on the number of eggs

Mean number of eggs per female

	24°C	27°C	30°C
1	34	58	18
2	36,5	40	8
3	53	33,67	57
4	57,5	56	51,5
5	40	19	38
6	67	1	30
7	38	18,5	32
8	72	14	39,5
9	58	29	14
10	48	6	12
11	67,5	51	30,5
12	28	100	42
13	47,5	51	44
14	52	50	58
15	21	46	33
16	77	58	57
17	53	70	37
18	22	23,5	56
19	21	53	29
20	51	2	23
21	16	56	22,5
22	14	82	43
23	24	66,5	43
24	29	50,5	39
25	1	39	20
26	31	51	15
27	39	70	29,5
28	41	31,5	33
29	35	1	60
30		41	15
31		34	13
32		1	26
33		36	48
34		45	5
35		8	51
36		56	52,5
37		1	46
38		43	33
39		49	57
40		59	93
41		52,33	50,5
42		22	27
43		57	64,5
44		73	59,5
45		51	58
46		40	32
47		59,5	33,3
48		31	42
49		25	41,5
50		45,67	24
51		36	44
52		2	45
53		2	16
54		24	33
55		54,67	38,5
56		48,67	14
57		32,5	40
58		44	60
59		49	24
60		28	2
61			21

Ti	1174	2377,51	2223,8
ni	29	60	61
xi barre	40,4827586	39,6251667	36,4557377
Ti carré	1378276	5652553,8	4945286,44
Ti carré/ni	47526,7586	94209,23	81070,2695

5775,31
150
116,563663
11976116,2
222806,258

SCI = 444,88749

SCT = 57193,4439

SCE = 56748,5564

Vc = 222,443745

Ve = 386,044601

F = 0,57621255

F < F alpha (3,00): we can't reject H0