

$$KT_{Top} = \sum_{i=1}^k \sum_{j=1}^n X_{ij}^2 - \frac{T^2}{N}$$

$$S_1^2 = \frac{KT_{GA}}{k-1}$$

$$KT_{GA} = \sum_{i=1}^k \frac{T_i^2}{n_i} - \frac{T^2}{N}$$

$$S_2^2 = \frac{KT_{Gi}}{N-k}$$

$$F = \frac{S_1^2}{S_2^2}$$

$v_1 = k-1$
 $v_2 = N-k$
 $sd_{Top} = N-1$

$$HSD = q_k \sqrt{\frac{KO_{Gi}}{n}}$$

F Tablosu

	1	2	3	4
1	161.4	199.5	215.7	224.6
2	18.51	19.00	19.16	19.25
3	10.13	9.552	9.277	9.117
4	7.709	6.944	6.591	6.388
5	6.608	5.786	5.409	5.192
6	5.987	5.143	4.757	4.534
7	5.591	4.737	4.347	4.120
8	5.318	4.459	4.066	3.838
9	5.117	4.256	3.863	3.633
10	4.965	4.103	3.708	3.478
11	4.844	3.982	3.587	3.357
12	4.747	3.885	3.490	3.259
13	4.667	3.806	3.411	3.179
14	4.600	3.739	3.344	3.112
15	4.543	3.682	3.287	3.056
16	4.494	3.634	3.239	3.007
17	4.451	3.592	3.197	2.965
18	4.414	3.555	3.160	2.928
19	4.381	3.522	3.127	2.895

Tukey q Tablosu

$\alpha = 0.05$					
k	2	3	4	5	6
df					
1	18.0	27.0	32.8	37.1	40.4
2	6.08	8.33	9.80	10.88	11.73
3	4.50	5.91	6.82	7.50	8.04
4	3.93	5.04	5.76	6.29	6.71
5	3.64	4.60	5.22	5.67	6.03
6	3.46	4.34	4.90	5.30	5.63
7	3.34	4.16	4.68	5.06	5.36
8	3.26	4.04	4.53	4.89	5.17
9	3.20	3.95	4.41	4.76	5.02
10	3.15	3.88	4.33	4.65	4.91
11	3.11	3.82	4.26	4.57	4.82
12	3.08	3.77	4.20	4.51	4.75
13	3.06	3.73	4.15	4.45	4.69
14	3.03	3.70	4.11	4.41	4.64
15	3.01	3.67	4.08	4.37	4.59
16	3.00	3.65	4.05	4.33	4.56
17	2.98	3.63	4.02	4.30	4.52
18	2.97	3.61	4.00	4.28	4.49
19	2.96	3.59	3.98	4.25	4.47
20	2.95	3.58	3.96	4.23	4.45
24	2.92	3.53	3.90	4.17	4.37
30	2.89	3.49	3.85	4.10	4.30
40	2.86	3.44	3.79	4.04	4.23

$$H = \left(\frac{12}{N(N+1)} \sum \frac{R_j^2}{n_j} \right) - 3(N+1)$$

KRUSKAL WALLIS H Tablosu

n_1	n_2	n_3	$\alpha = 0.10$	0.05
2	2	2	4.571	
3	2	1	4.286	
3	2	2	4.500	4.714
3	3	1	4.571	5.143
3	3	2	4.556	5.361
3	3	3	4.622	5.600
4	2	1	4.500	
4	2	2	4.458	5.333
4	3	1	4.056	5.208
4	3	2	4.511	5.444
4	3	3	4.709	5.791
4	4	1	4.167	4.967
4	4	2	4.555	5.455
4	4	3	4.545	5.598
4	4	4	4.654	5.692
5	2	1	4.200	5.000
5	2	2	4.373	5.160
5	3	1	4.018	4.960
5	3	2	4.651	5.251
5	3	3	4.533	5.648
5	4	1	3.987	4.985
5	4	2	4.541	5.273
5	4	3	4.549	5.656
5	4	4	4.619	5.657
5	5	1	4.109	5.127
5	5	2	4.623	5.338
5	5	3	4.545	5.705
5	5	4	4.523	5.666
5	5	5	4.940	5.780