

Power Analysis for One-Way ANOVA

The POWER Procedure Overall F Test for One-Way ANOVA

Fixed Scenario Elements	
Method	Exact
Group Means	20 22 22 25 18

Computed Power				
Index	Alpha	Std Dev	N per Group	Power
1	0.05	3	2	0.222
2	0.05	3	3	0.456
3	0.05	3	4	0.657
4	0.05	3	5	0.800
5	0.05	3	6	0.891
6	0.05	3	7	0.944
7	0.05	3	8	0.972
8	0.05	3	9	0.987
9	0.05	3	10	0.994
10	0.05	3	11	0.997
11	0.05	3	12	0.999
12	0.05	3	13	>.999
13	0.05	3	14	>.999
14	0.05	3	15	>.999
15	0.05	3	16	>.999
16	0.05	3	17	>.999
17	0.05	3	18	>.999
18	0.05	3	19	>.999
19	0.05	3	20	>.999
20	0.05	6	2	0.088
21	0.05	6	3	0.136
22	0.05	6	4	0.189
23	0.05	6	5	0.245
24	0.05	6	6	0.303
25	0.05	6	7	0.361
26	0.05	6	8	0.418
27	0.05	6	9	0.474
28	0.05	6	10	0.527
29	0.05	6	11	0.577
30	0.05	6	12	0.624
31	0.05	6	13	0.668
32	0.05	6	14	0.708
33	0.05	6	15	0.744
34	0.05	6	16	0.777

35	0.05	6	17	0.806
36	0.05	6	18	0.833
37	0.05	6	19	0.856
38	0.05	6	20	0.876
39	0.01	3	2	0.059
40	0.01	3	3	0.185
41	0.01	3	4	0.359
42	0.01	3	5	0.538
43	0.01	3	6	0.691
44	0.01	3	7	0.806
45	0.01	3	8	0.885
46	0.01	3	9	0.935
47	0.01	3	10	0.965
48	0.01	3	11	0.981
49	0.01	3	12	0.991
50	0.01	3	13	0.995
51	0.01	3	14	0.998
52	0.01	3	15	0.999
53	0.01	3	16	>.999
54	0.01	3	17	>.999
55	0.01	3	18	>.999
56	0.01	3	19	>.999
57	0.01	3	20	>.999
58	0.01	6	2	0.019
59	0.01	6	3	0.036
60	0.01	6	4	0.057
61	0.01	6	5	0.084
62	0.01	6	6	0.116
63	0.01	6	7	0.152
64	0.01	6	8	0.191
65	0.01	6	9	0.233
66	0.01	6	10	0.277
67	0.01	6	11	0.323
68	0.01	6	12	0.369
69	0.01	6	13	0.415
70	0.01	6	14	0.460
71	0.01	6	15	0.505
72	0.01	6	16	0.548
73	0.01	6	17	0.589
74	0.01	6	18	0.628
75	0.01	6	19	0.664
76	0.01	6	20	0.699

The POWER Procedure
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