

Upper Critical Values for the Friedman Test

(k treatments and b blocks)

- Notes 1. In the table below, the critical values give significance levels as close as possible to, but not exceeding the nominal α .
2. For values of k and b beyond the range of the table below, various approximations are available.

b	$k = 3$		$k = 4$		$k = 5$		$k = 6$	
	0.05	0.01	0.05	0.01	0.05	0.01	0.05	0.01
2	-	-	6.000	-	7.600	8.000	9.143	9.714
3	6.000	-	7.400	9.000	8.533	10.13	9.857	11.76
4	6.500	8.000	7.800	9.600	8.800	11.20	10.29	12.71
5	6.400	8.400	7.800	9.960	8.960	11.68	10.49	13.23
6	7.000	9.000	7.600	10.20	9.067	11.87	10.57	13.62
7	7.143	8.857	7.800	10.54	9.143	12.11		
8	6.250	9.000	7.650	10.50	9.200	12.30		
9	6.222	9.556	7.667	10.73	9.244	12.44		
10	6.200	9.600	7.680	10.68				
11	6.545	9.455	7.691	10.75				
12	6.500	9.500	7.700	10.80				
13	6.615	9.385	7.800	10.85				
14	6.143	9.143	7.714	10.89				
15	6.400	8.933	7.720	10.92				
16	6.500	9.375	7.800	10.95				
17	6.118	9.294	7.800	11.05				
18	6.333	9.000	7.733	10.93				
19	6.421	9.579	7.863	11.02				
20	6.300	9.300	7.800	11.10				
21	6.095	9.238	7.800	11.06				
22	6.091	9.091	7.800	11.07				
23	6.348	9.391						
24	6.250	9.250						

<i>b</i>	<i>k</i> = 3		<i>k</i> = 4		<i>k</i> = 5		<i>k</i> = 6	
	0.05	0.01	0.05	0.01	0.05	0.01	0.05	0.01
25	6.080	8.960						
26	6.077	9.308						
27	6.000	9.407						
28	6.500	9.214						
29	6.276	9.172						
30	6.200	9.267						
31	6.000	9.290						
32	6.063	9.250						
33	6.061	9.152						
34	6.059	9.176						
35	6.171	9.314						
36	6.167	9.389						
37	6.054	9.243						
38	6.158	9.053						
39	6.000	9.282						
40	6.050	9.150						
41	6.195	9.366						
42	6.143	9.190						
43	6.186	9.256						
44	6.318	9.136						
45	6.178	9.244						
46	6.043	9.435						
47	6.128	9.319						
48	6.167	9.125						
49	6.041	9.184						
50	6.040	9.160						