

Critical Values for the Sign Test

<i>n</i>	One tailed, α	.005	.01	.025	.05
	Two tailed, α	.01	.02	.05	.10
8		0	0	0	1
9		0	0	1	1
10		0	0	1	1
11		0	1	1	2
12		1	1	2	2
13		1	1	2	3
14		1	2	3	3
15		2	2	3	3
16		2	2	3	4
17		2	3	4	4
18		3	3	4	5
19		3	4	4	5
20		3	4	5	5
21		4	4	5	6
22		4	5	5	6
23		4	5	6	7
24		5	5	6	7
25		5	6	6	7

Critical Values for the Wilcoxon Signed-Rank Test

<i>n</i>	One tailed, α	.05	.025	.01	.005
	Two tailed, α	.10	.05	.02	.01
5		1	-	-	-
6		2	1	-	-
7		4	2	0	-
8		6	4	2	0
9		8	6	3	2
10		11	8	5	3
11		14	11	7	5
12		17	14	10	7
13		21	17	13	10
14		26	21	16	13
15		30	25	20	16
16		36	30	24	19
17		41	35	28	23
18		47	40	33	28
19		54	46	38	32
20		60	52	43	37
21		68	59	49	43
22		75	66	56	49
23		83	73	62	55
24		92	81	69	61
25		101	90	77	68
26		110	98	85	76
27		120	107	93	84
28		130	117	102	92
29		141	127	111	100
30		152	137	120	109