

***Factsheet:* Critical Values of the Mann-Whitney U Statistic**

Critical values of U at $\alpha = 0.025$ (direction predicted)
or at $\alpha = 0.05$ (direction not predicted).

		N ₂											
		9	10	11	12	13	14	15	16	17	18	19	20
N ₁	1												
	2	0	0	0	1	1	1	1	1	2	2	2	2
	3	2	3	3	4	4	5	5	6	6	7	7	8
	4	4	5	6	7	8	9	10	11	11	12	13	13
	5	7	8	9	11	12	13	14	15	17	18	19	20
	6	10	11	13	14	16	17	19	21	22	24	25	27
	7	12	14	16	18	20	22	24	26	28	30	32	34
	8	15	17	19	22	24	26	29	31	34	36	38	41
	9	17	20	23	26	28	31	34	37	39	42	45	48
	10	20	23	26	29	33	36	39	42	45	48	52	55
	11	23	26	30	33	37	40	44	47	51	55	58	62
	12	26	29	33	37	41	45	49	53	57	61	65	69
	13	28	33	37	41	45	50	54	59	63	67	72	76
	14	31	36	40	45	50	55	59	64	67	74	78	83
	15	34	39	44	49	54	59	64	70	75	80	85	90
	16	37	42	47	53	59	64	70	75	81	86	92	98
	17	39	45	51	57	63	67	75	81	87	93	99	105
	18	42	48	55	61	67	74	80	86	93	99	106	112
	19	45	52	58	65	72	78	85	92	99	106	113	119
	20	48	55	62	69	76	83	90	98	105	112	119	127

Critical Values of U at $\alpha = 0.05$ (direction predicted)
or at $\alpha = 0.10$ (direction not predicted).

		N ₂												
		9	10	11	12	13	14	15	16	17	18	19	20	
N ₁	1												0	0
	2	1	1	1	2	2	2	3	3	3	4	4	4	
	3	3	4	5	5	6	7	7	8	9	9	10	11	
	4	6	7	8	9	10	11	12	14	15	16	17	18	
	5	9	11	12	13	15	16	18	19	20	22	23	25	
	6	12	14	16	17	19	21	23	25	26	28	30	32	
	7	15	17	19	21	24	26	28	30	33	35	37	39	
	8	18	20	23	26	28	31	33	36	39	41	44	47	
	9	21	24	27	30	33	36	39	42	45	48	51	54	
	10	24	27	31	34	37	41	44	48	51	55	58	62	
	11	27	31	34	38	42	46	50	54	57	61	65	69	
	12	30	34	38	42	47	51	55	60	64	68	72	77	
	13	33	37	42	47	51	56	61	65	70	75	80	84	
	14	36	41	46	51	56	61	66	71	77	82	87	92	
	15	39	44	50	55	61	66	72	77	83	88	94	100	
	16	42	48	54	60	65	71	77	83	89	95	101	107	
	17	45	51	57	64	70	77	83	89	96	102	109	115	
	18	48	55	61	68	75	82	88	95	102	109	116	123	
	19	51	58	65	72	80	87	94	101	109	116	123	130	
	20	54	62	69	77	84	92	100	107	115	123	130	138	

Want to know more?

If you have any further questions about this topic you can make an appointment to see a [Learning Enhancement Tutor](#) in the [Student Support Service](#), as well as speaking to your lecturer or adviser.

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