

## Test Frequency Distribution

Part II of the ITEM ANALYSIS program displays a test frequency distribution. The raw scores are ordered from high to low with corresponding statistics:

1. Standard score--a linear transformation of the raw score that sets the mean equal to 500 and the standard deviation equal to 100; in normal score distributions for classes of 500 students or more the standard score range usually falls between 200 and 800 (plus or minus three standard deviations of the mean); for classes with fewer than 30 students the standard score range usually falls within two standard deviations of the mean, i.e., a range of 300 to 700.
2. Percentile rank--the percentage of individuals who received a score lower than the given score plus the percentage of half the individuals who received the given score. This measure indicates a person's relative position within a group.
3. Percentage of people in the total group who received the given score.
4. Frequency--in a test analysis, the number of individuals who receive a given score.
5. Cumulative frequency--in a test analysis, the number of individuals who score at or below a given score value.

\* \* \* MERMAC -- TEST ANALYSIS AND QUESTIONNAIRE PACKAGE \* \* \*  
 SAMPLE ITEM ANALYSIS  
 TEST FREQUENCY DISTRIBUTION

RAW SCORE	STANDARD SCORE	PER-CENTILE	PERCENT	FREQ	CUM FREQ	EACH * REPRESENTS 1 PERSON(S)
92	717	99	0.2	1	603	*
91	708	99	0.3	2	602	**
90	700	99	0.0	0	600	
89	691	99	0.2	1	600	*
88	683	99	0.8	5	599	*****
87	675	99	0.3	2	594	**
86	666	98	1.0	6	592	*****
85	658	97	1.3	8	586	*****
84	649	96	1.2	7	578	*****
83	641	95	2.0	12	571	*****
82	632	93	1.7	10	559	*****
81	624	91	1.5	9	549	*****
80	615	90	1.5	9	540	*****
79	607	88	2.8	17	531	*****
78	598	85	4.1	25	514	*****
77	590	81	2.3	14	489	*****
76	562	79	4.0	24	475	*****
75	573	75	2.2	13	451	*****
74	565	73	3.3	20	438	*****
73	556	69	2.0	12	418	*****

72	548	67	3.8	23	406	*****
71	539	64	2.8	17	383	*****
70	531	61	3.0	18	366	*****
69	522	58	3.2	19	326	*****
67	505	51	3.6	22	307	*****
66	497	47	3.8	23	285	*****
65	489	43	2.7	16	262	*****
64	480	41	3.2	19	246	*****
63	472	38	2.5	15	227	*****
62	463	35	3.2	19	212	*****
61	455	32	2.5	15	193	*****
60	446	30	1.8	11	178	*****
59	438	28	2.3	14	167	*****
58	429	25	3.0	18	153	*****
57	421	22	1.7	10	135	*****
56	413	21	3.2	12	106	*****
54	396	16	1.7	10	94	*****
53	387	14	1.5	9	84	*****
52	379	12	1.2	7	75	*****
51	370	11	2.0	12	68	*****
50	362	9	1.2	7	56	*****
49	353	8	1.3	8	49	*****
48	345	7	1.7	10	41	*****