CHAPTER 6: FACTOR ANALYSIS

Analysis of psychomotor data

2-Factor Unrotated Solution

Communalities

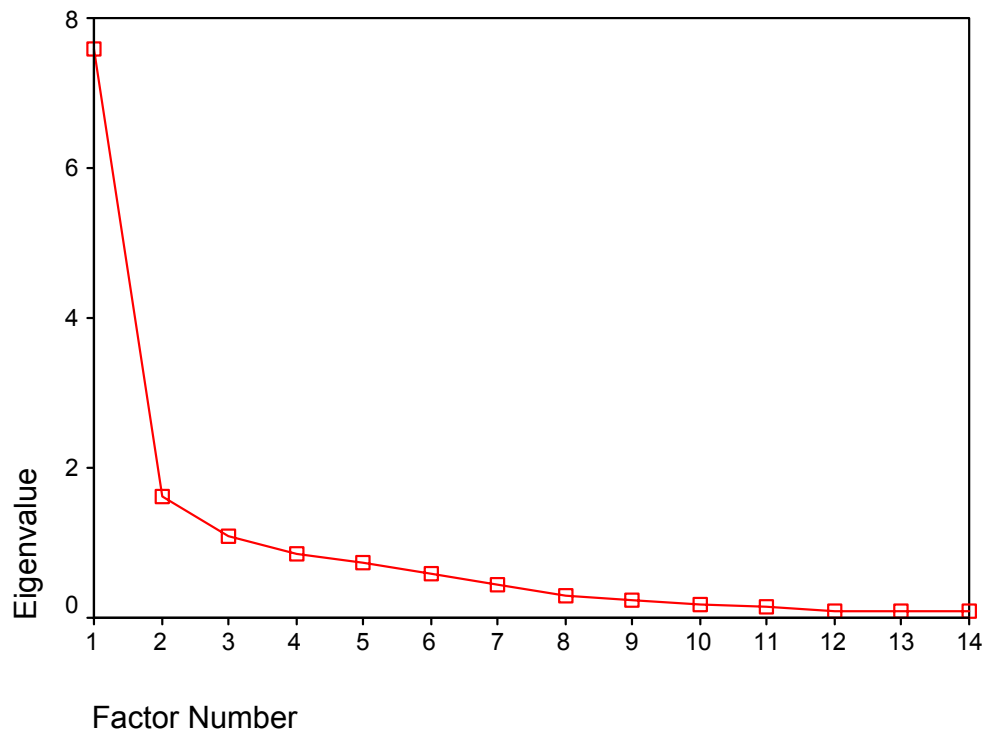|	Initial	Extraction
X1	.667	.637
X2	.830	.820
X3	.813	.817
X4	.880	.893
X5	.887	.905
X6	.863	.869
X7	.867	.850
X8	.856	.843
X9	.422	.354
X10	.583	.645
X11	.377	.404
X12	.246	.211
X13	.251	.117
X14	.245	.124

Extraction Method: Maximum Likelihood.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	7.598	54.270	54.270	7.283	52.018	52.018
2	1.628	11.626	65.896	1.206	8.612	60.630
3	1.096	7.826	73.722			
4	.844	6.026	79.748			
5	.735	5.249	84.996			
6	.579	4.136	89.132			
7	.432	3.089	92.220			
8	.288	2.057	94.277			
9	.221	1.578	95.855			
10	.165	1.179	97.034			
11	.146	1.046	98.080			
12	9.662E-02	.690	98.770			
13	9.312E-02	.665	99.435			
14	7.913E-02	.565	100.000			

Extraction Method: Maximum Likelihood.

Scree Plot

Factor Matrix[a]

	Factor 1	Factor 2
X1	.715	.355
X2	.894	.145
X3	.896	.121
X4	.945	-2.83E-02
X5	.948	-8.44E-02
X6	.921	-.143
X7	.916	-9.96E-02
X8	.910	-.123
X9	.293	.518
X10	.448	.666
X11	.399	.495
X12	.452	7.780E-02
X13	.300	-.165
X14	.351	2.982E-02

Extraction Method: Maximum Likelihood.

a. 2 factors extracted. 6 iterations required.

Goodness-of-fit Test

Chi-Square	df	Sig.
184.215	64	.000

Factor Plot

Factor 2

Factor 1