

CHAPTER 5: PRINCIPAL COMPONENTS ANALYSIS

Analysis of educational circumstances data

3 Components

Communalities

	Initial	Extraction
X1	1.000	.839
X2	1.000	.625
X3	1.000	.457
X4	1.000	.555
X5	1.000	.727
X6	1.000	.620
X7	1.000	.826
X8	1.000	.576
X9	1.000	.724

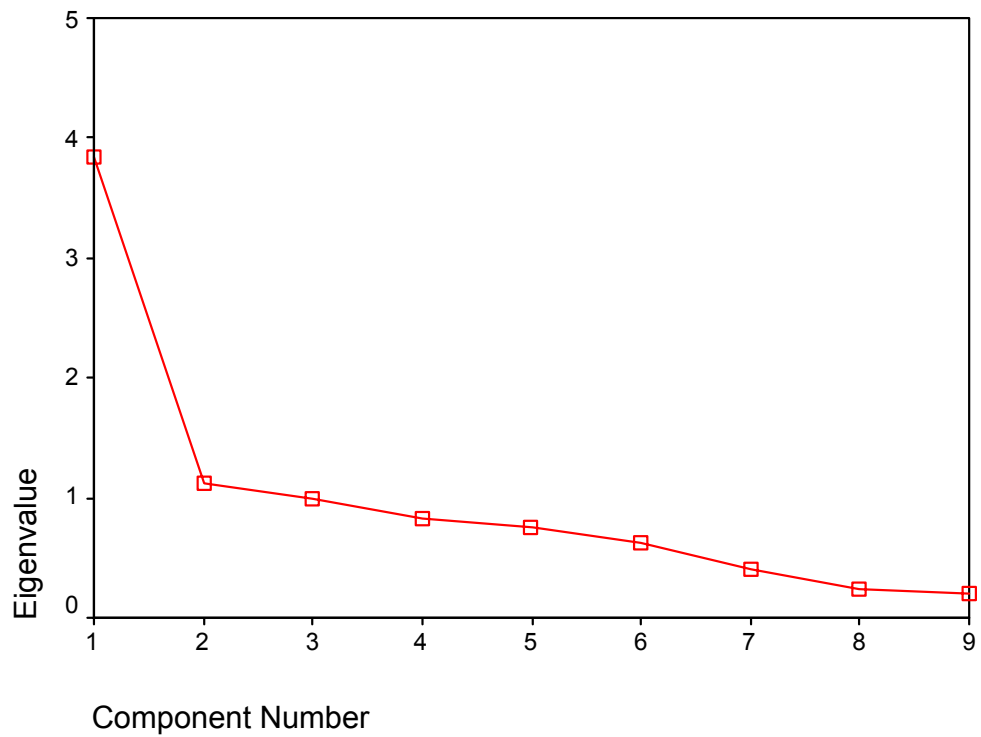
Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	3.834	42.595	42.595	3.834	42.595	42.595
2	1.120	12.440	55.035	1.120	12.440	55.035
3	.996	11.072	66.107	.996	11.072	66.107
4	.822	9.136	75.243			
5	.755	8.391	83.635			
6	.633	7.033	90.668			
7	.401	4.461	95.129			
8	.241	2.676	97.805			
9	.198	2.195	100.000			

Extraction Method: Principal Component Analysis.

Scree Plot



Component Matrix^a

	Component		
	1	2	3
X1	.744	.280	-.456
X2	.248	.689	.296
X3	.610	9.768E-02	.274
X4	.456	-6.69E-02	.586
X5	.835	-7.88E-02	.154
X6	.742	-.258	5.333E-02
X7	.721	.313	-.457
X8	.422	-.599	-.197
X9	.833	-.149	9.049E-02

Extraction Method: Principal Component Analysis.

a. 3 components extracted.