

Obs	Population	School	Employment	Services	HouseValue
1	5700	12.8	2500	270	25000
2	1000	10.9	600	10	10000
3	3400	8.8	1000	10	9000
4	3800	13.6	1700	140	25000
5	4000	12.8	1600	140	25000
6	8200	8.3	2600	60	12000
7	1200	11.4	400	10	16000
8	9100	11.5	3300	60	14000
9	9900	12.5	3400	180	18000
10	9600	13.7	3600	390	25000
11	9600	9.6	3300	80	12000
12	9400	11.4	4000	100	13000

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#### The MEANS Procedure

Variable	Mean	Std Dev
Population	6241.6667	3439.9943
School	11.4417	1.7865
Employment	2333.3333	1241.2115
Services	120.8333	114.9275
HouseValue	17000.0000	6367.5313

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#### The FACTOR Procedure

Input Data Type	Raw Data
Number of Records Read	12
Number of Records Used	12
N for Significance Tests	12

Means and Standard Deviations from 12 Observations		
Variable	Mean	Std Dev
Population	6241.667	3439.9943
School	11.442	1.7865
Employment	2333.333	1241.2115
Services	120.833	114.9275
HouseValue	17000.000	6367.5313

Correlations					
	Population	School	Employment	Services	HouseValue
Population	1.00000	0.00975	0.97245	0.43887	0.02241
School	0.00975	1.00000	0.15428	0.69141	0.86307
Employment	0.97245	0.15428	1.00000	0.51472	0.12193
Services	0.43887	0.69141	0.51472	1.00000	0.77765
HouseValue	0.02241	0.86307	0.12193	0.77765	1.00000

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#### The FACTOR Procedure Initial Factor Method: Principal Components

Prior Commuality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 5 Average = 1				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.87331359	1.07665350	0.5747	0.5747
2	1.79666009	1.58182321	0.3593	0.9340

Eigenvalues of the Correlation Matrix: Total = 5 Average = 1				
	Eigenvalue	Difference	Proportion	Cumulative
3	0.21483689	0.11490283	0.0430	0.9770
4	0.09993405	0.08467868	0.0200	0.9969
5	0.01525537		0.0031	1.0000

2 factors will be retained by the MINEIGEN criterion.

Factor Pattern		
	Factor1	Factor2
Population	0.58096	0.80642
School	0.76704	-0.54476
Employment	0.67243	0.72605
Services	0.93239	-0.10431
HouseValue	0.79116	-0.55818

Variance Explained by Each Factor	
Factor1	Factor2
2.8733136	1.7966601

Final Communality Estimates: Total = 4.669974				
Population	School	Employment	Services	HouseValue
0.98782629	0.88510555	0.97930583	0.88023562	0.93750041

#### The PRINCOMP Procedure

Observations	12
Variables	5

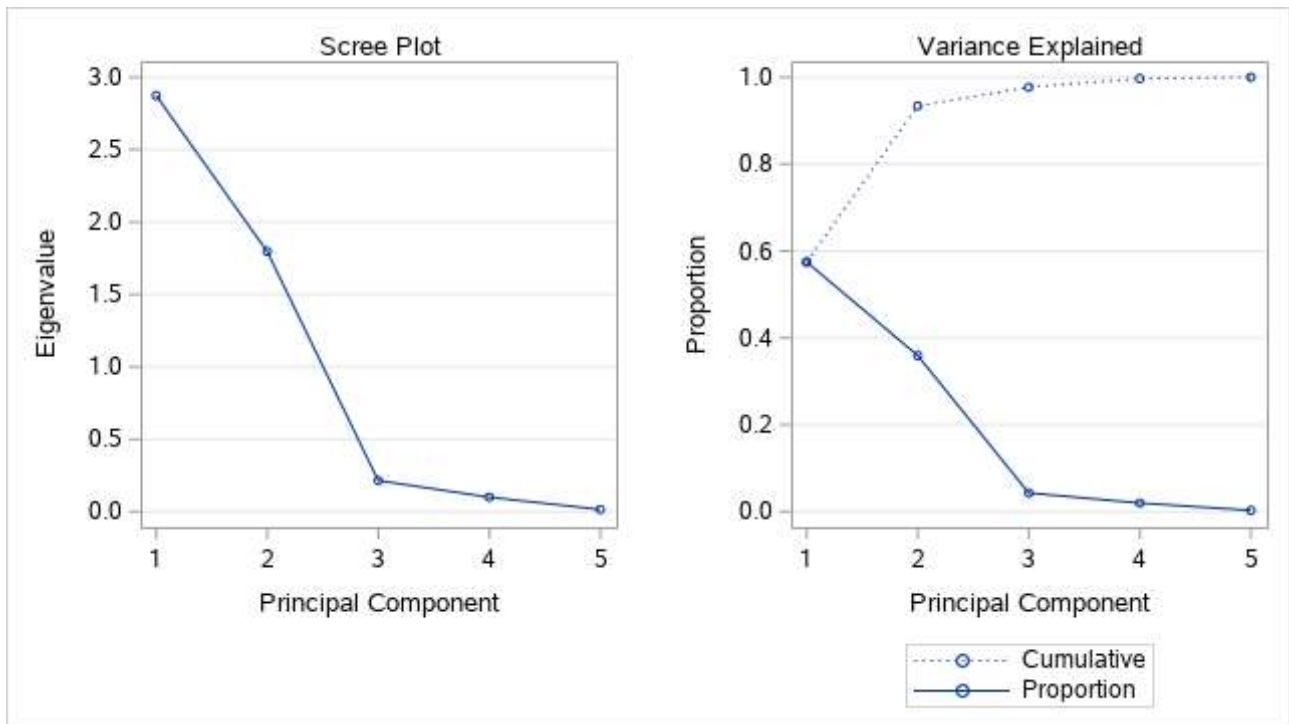
Simple Statistics					
	Population	School	Employment	Services	HouseValue
Mean	6241.666667	11.44166667	2333.333333	120.8333333	17000.00000
StD	3439.994274	1.78654483	1241.211529	114.9275134	6367.53128

Correlation Matrix					
	Population	School	Employment	Services	HouseValue
Population	1.0000	0.0098	0.9724	0.4389	0.0224
School	0.0098	1.0000	0.1543	0.6914	0.8631
Employment	0.9724	0.1543	1.0000	0.5147	0.1219
Services	0.4389	0.6914	0.5147	1.0000	0.7777
HouseValue	0.0224	0.8631	0.1219	0.7777	1.0000

Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.87331359	1.07665350	0.5747	0.5747
2	1.79666009	1.58182321	0.3593	0.9340
3	0.21483689	0.11490283	0.0430	0.9770
4	0.09993405	0.08467868	0.0200	0.9969
5	0.01525537		0.0031	1.0000

Eigenvectors					
	Prin1	Prin2	Prin3	Prin4	Prin5
Population	0.342730	0.601629	0.059517	0.204033	0.689497
School	0.452507	-.406414	0.688822	-.353571	0.174861

Eigenvectors					
	Prin1	Prin2	Prin3	Prin4	Prin5
Employment	0.396695	0.541665	0.247958	0.022937	-0.698014
Services	0.550057	-.077817	-.664076	-.500386	-.000124
HouseValue	0.466738	-.416429	-.139649	0.763182	-.082425



#### The FACTOR Procedure

Input Data Type	Raw Data
Number of Records Read	12
Number of Records Used	12
N for Significance Tests	12

#### The FACTOR Procedure Initial Factor Method: Principal Components

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 5 Average = 1				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.87331359	1.07665350	0.5747	0.5747
2	1.79666009	1.58182321	0.3593	0.9340
3	0.21483689	0.11490283	0.0430	0.9770
4	0.09993405	0.08467868	0.0200	0.9969
5	0.01525537		0.0031	1.0000

5 factors will be retained by the NFACTOR criterion.

Factor Pattern					
	Factor1	Factor2	Factor3	Factor4	Factor5
Population	0.58096	0.80642	0.02759	0.06450	0.08516
School	0.76704	-0.54476	0.31927	-0.11177	0.02160
Employment	0.67243	0.72605	0.11493	0.00725	-0.08621
Services	0.93239	-0.10431	-0.30780	-0.15818	-0.00002
HouseValue	0.79116	-0.55818	-0.06473	0.24126	-0.01018

Variance Explained by Each Factor				
Factor1	Factor2	Factor3	Factor4	Factor5
2.8733136	1.7966601	0.2148369	0.0999341	0.0152554

Final Communality Estimates: Total = 5.000000				
Population	School	Employment	Services	HouseValue
1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

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**The FACTOR Procedure**  
**Initial Factor Method: Principal Components**  
**Scoring Coefficients Estimated by Regression**

Squared Multiple Correlations of the Variables with Each Factor				
Factor1	Factor2	Factor3	Factor4	Factor5
1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

Standardized Scoring Coefficients					
	Factor1	Factor2	Factor3	Factor4	Factor5
Population	0.20219	0.44884	0.12841	0.64542	5.58240
School	0.26695	-0.30320	1.48612	-1.11846	1.41574
Employment	0.23403	0.40411	0.53496	0.07256	-5.65135
Services	0.32450	-0.05806	-1.43273	-1.58288	-0.00100
HouseValue	0.27535	-0.31068	-0.30129	2.41419	-0.66734