



# Analisis Faktor

# Pengertian Analisis Faktor

- Analisis faktor adalah alat analisis statistik yang dipergunakan untuk mereduksi/mengurangi data (data reduction) menjadi lebih sedikit untuk membuat sebuah variabel set baru yang dinamakan FAKTOR.



# Variabel dan Sampel


- Variable yang dilibatkan dalam analisis faktor berjumlah minimal lima
- Ukuran sample yang disarankan berjumlah 100 atau lebih.

## Note :

- Kass and Tinsley (1979): 5~10 participants per variable up to a total of 300
- Tabachnick and Fidell (2007): at least 300 cases
- Comrey and Lee (1992): 300 (good); 100 (poor); 1000 (excellent)
- MacCallum, Widaman, Zhang, and Hong (1999): communalities to sample size 300 or more participants + enough variables



# Tujuan Analisis Faktor

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1. *Data Summarization*, yakni mengidentifikasi adanya hubungan antar variabel dengan melakukan uji korelasi. Jika korelasi dilakukan antar variabel (dalam pengertian SPSS adalah "kolom"), analisis tersebut dinamakan *R Factor Analysis*. Namun jika korelasi dilakukan antar responden atau sampel (dalam pengertian SPSS adalah "baris"), analisis disebut *Q Factor Analysis*, yang juga populer disebut *Cluster Analysis*.
  2. *Data Reduction*, yakni setelah melakukan korelasi, dilakukan proses membuat sebuah variabel set baru yang dinamakan faktor untuk menggantikan sejumlah variabel tertentu.


# Proses Analisis Faktor

1. Memilih variabel yang layak dimasukkan dalam analisis faktor. Analisis faktor berupaya mengelompokkan sejumlah variabel, sehingga harus ada korelasi yang cukup kuat di antara variabel untuk dapat dikelompokkan.

Alat yang digunakan:

- a. *Measure of Sampling Adequency /MSA*  
(sig > 0.5)
- b. *Barlett's Test of Sphericity* (sig < 0.05)

# Proses Analisis Faktor

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2. Setelah sejumlah variabel terpilih, maka dilakukan 'ekstraksi' variabel tersebut, sehingga menjadi satu/beberapa faktor.

Alat yang digunakan:

- a. Metode Analisis Utama (*Principal Component Analysis*)
- b. *Maximum Likelihood*
- c. *Metode Analisis Faktor Umum (Common Factor Analysis/CFA).*

# Proses Analisis Faktor

3. Melakukan proses rotasi untuk memperjelas apakah faktor yg terbentuk sudah secara signifikan berbeda dengan faktor lain.
4. Setelah faktor benar-benar sudah terbentuk, proses selanjutnya menamakan faktor yang ada kemudian dilakukan validitas hasil faktor.



# Hal-Hal yang Mendorong Nasabah Menabung di Bank

1. Tingkat suku bunga
2. Fleksibilitas Pengembalian Uang
3. Pelayanan Teller
4. Pelayanan Satpam
5. Kecepatan Pelayanan Customer Service
6. Keramahaan pelayanan Customer Service
7. Parkir yang luas
8. Parkir yang aman
9. Image bank di masyarakat
10. Lokasi strategis bank
11. Jarak dari rumah ke bank
12. Tersedianya angkutan umum ke bank
13. Gedung yang megah
14. AC yang dingin
15. Ruang tunggu yang nyaman





# Pengelompokan Variabel Hasil Analisis Faktor

Faktor SDM	Faktor Fisik	Faktor Bisik
<ul style="list-style-type: none"> <li>• Pelayanan Teller</li> </ul>	<ul style="list-style-type: none"> <li>• Lokasi Strategis</li> </ul>	<ul style="list-style-type: none"> <li>• Tingkat suku bunga</li> </ul>
<ul style="list-style-type: none"> <li>• Pelayanan Satpam</li> </ul>	<ul style="list-style-type: none"> <li>• Jarak dari rumah ke bank</li> </ul>	<ul style="list-style-type: none"> <li>• Fleksibilitas Pengambilan Uang</li> </ul>
<ul style="list-style-type: none"> <li>• Kecepatan pelayanan Customer Service</li> </ul>	<ul style="list-style-type: none"> <li>• Tersedianya angkutan umum ke Bank</li> </ul>	<ul style="list-style-type: none"> <li>• Image Bank di masyarakat</li> </ul>
<ul style="list-style-type: none"> <li>• Keramahan pelayanan Customer Service</li> </ul>	<ul style="list-style-type: none"> <li>• Gedung yang megah</li> <li>• AC yang dingin</li> <li>• Ruang Tunggu yang nyaman</li> <li>• Parkir yang luas</li> <li>• Parkir yang aman</li> </ul>	



# Contoh Perhitungan Analisis Faktor dengan SPSS

Are There Other Treat that Might Contribute to Anxiety About SPSS?

- Interview pada mahasiswa → Kuesioner yang terdiri dari 23 pertanyaan
- Skala Likert
- Sample sebanyak 2571 responden



No	Questions	No	Questions
1	Statistics makes me cry	13	I worry that I will cause irreparable damage because of my incompetenece with computers
2	My friends will think I'm stupid for not being able to cope with SPSS	14	Computers have minds of their own and deliberately go wrong whenever I use them
3	Standard deviations excite me	15	Computers are out to get me
4	I dream that Pearson is attacking me with correlation coefficents	16	I weep openly at the mention of central tendency
5	I don't understand statistics	17	I slip into a coma whenever I see an equation
6	I have little experience of computers	18	SPSS always crashes when I try to use it
7	All computers hate me	19	Everybody looks at me when I use SPSS
8	I have never been good at mathematics	20	I can't sleep for thoughts of eigen vectors
9	My friends are better at statistics than me	21	I wake up under my duvet thinking that I am trapped under a normal distribtion
10	Computers are useful only for playing games	22	My friends are better at SPSS than I am
11	I did badly at mathematics at school	23	If I'm good at statistics my friends will think I'm a nerd
12	People try to tell you that SPSS makes statistics easier to understand but it doesn't		



1: Question\_01 2

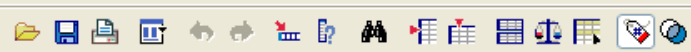
	Question	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1
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2	1	1	4	3	2	2	2	2	5	2	2	3	1	3	4	3	2	2
3	2	3	2	2	4	1	2	2	2	2	3	3	2	4	2	3	2	3
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31	2	2	1	1	2	1	2	1	4	2	1	4	2	2	2	2	1	1

1 : Question_01	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1
1	Agree	Strongly a													
2	Strongly ag	Strongly a													
3	Agree	Neithe													
4	Neither	Strongly a													
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15	Agree	Agree	Neither	Disagree	Agree	Agree	Agree	Neither	Agree	Agree	Neither	Agree	Neither	Agree	Neither
16	Neither	Strongly ag	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Neither	Agree	Neither	Agree	Neither	Agree
17	Strongly ag	Agree	Strongly di	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag
18	Agree	Agree	Neither	Neither	Neither	Disagree	Neither	Agree	Strongly di	Agree	Neither	Neither	Neither	Neither	Disagree
19	Agree	Neither	Disagree	Agree	Neither	Strongly ag	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Agree
20	Agree	Strongly ag	Strongly ag	Agree	Neither	Disagree	Disagree	Strongly ag	Strongly di	Strongly ag	Agree	Strongly di	Agree	Strongly di	Strongly di
21	Strongly ag	Agree	Neither	Agree	Disagree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag
22	Neither	Agree	Agree	Disagree	Disagree	Strongly di	Strongly di	Agree	Neither	Neither	Neither	Neither	Disagree	Neither	Agree
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25	Agree	Strongly ag	Strongly ag	Disagree	Agree	Neither	Neither	Disagree	Strongly ag	Agree	Neither	Neither	Agree	Neither	Neither
26	Agree	Strongly ag	Neither	Neither	Agree	Strongly ag	Disagree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Neither
27	Neither	Agree	Strongly ag	Neither	Disagree	Disagree	Neither	Disagree	Agree	Disagree	Disagree	Neither	Disagree	Neither	Strongly di
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34	Neither	Neither	Agree	Neither	Neither	Agree	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Neither	Neither
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36	Agree	Strongly ag	Strongly ag	Neither	Disagree	Strongly di	Disagree	Disagree	Disagree	Disagree	Strongly di	Neither	Disagree	Disagree	Disagree
37	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree

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9	Neither	Neithe				Strongly Di	Neither	Strongly di	Strongly di	Neither	Neither	Strongly di	Strongly di	Strongly di	Strongly di
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32	Strongly ag	Neither	Neither	Agree	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Disagree	Neither	Neither
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1 : Question\_01 2

	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1
1										Neither	Strongly ag	Strongly ag	Agree	Strongly ag	Agree
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5										Neither	Agree	Disagree	Agree	Agree	Neither
6										Disagree	Agree	Disagree	Neither	Agree	Disagree
7										Agree	Agree	Neither	Agree	Agree	Agree
8										Agree	Agree	Disagree	Agree	Agree	Agree
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11										Agree	Agree	Strongly di	Agree	Strongly ag	Neither
12										Agree	Agree	Strongly di	Agree	Strongly ag	Neither
13										Neither	Strongly ag	Neither	Agree	Agree	Agree
14										Neither	Neither	Agree	Neither	Agree	Agree
15										Neither	Agree	Agree	Neither	Agree	Agree
16										Neither	Agree	Agree	Neither	Agree	Agree
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28	Neither	Agree	Strongly ag	Neither	Disagree	Disagree	Neither	Disagree	Agree	Disagree	Disagree	Neither	Disagree	Neither	Strongly di
29	Strongly ag	Agree	Disagree	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Disagree	Disagree	Strongly ag	Agree	Agree	Disagree	Agree
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33	Strongly ag	Neither	Neither	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Disagree	Neither	Neither
34	Agree	Neither	Disagree	Agree	Agree	Agree	Disagree	Agree	Disagree	Agree	Agree	Agree	Agree	Agree	Agree
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36	Agree	Strongly ag	Agree	Disagree	Neither	Disagree	Disagree	Neither	Agree	Disagree	Disagree	Disagree	Disagree	Neither	Disagree
37	Agree	Strongly ag	Strongly ag	Neither	Disagree	Strongly di	Disagree	Disagree	Disagree	Disagree	Disagree	Strongly di	Neither	Disagree	Disagree
38	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree

**Factor Analysis**

Standard deviation

- I dream that Pears
- I don't understand
- I have little experie
- All computers hate
- I have never been
- My friends are belt
- Computers are use
- I did badly at mathi
- People try to tell yc
- I worry that I will ca

Variables:

- Statistics makes me cry
- My friends will think I'm

Selection Variable:

Value...

OK Paste Reset Cancel Help

Descriptives... Extraction... Rotation... Scores... Options...



1 : Question\_01 2

	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1		
1									Neither	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Agree	Agree	Agree
2	Str								Agree	Agree	Strongly di	Agree	Agree	Neither	Strongly ag	Neither	Disagree
3									Agree	Agree	Agree	Agree	Neither	Neither	Agree	Disagree	Agree
4									Disagree	Agree	Agree	Disagree	Agree	Agree	Agree	Neither	Neither
5									Neither	Agree	Disagree	Agree	Agree	Neither	Neither	Agree	Agree
6									Disagree	Agree	Disagree	Neither	Agree	Disagree	Neither	Neither	Strongly di
7									Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree
8									Agree	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Neither
9									ongly di	Strongly di	Neither	Neither	Strongly di	Strongly di	Strongly di	Strongly di	Strongly di
10									Agree	Agree	Neither	Agree	Agree	Neither	Agree	Strongly ag	Agree
11									Agree	Agree	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Strongly ag
12									Neither	Strongly ag	Neither	Agree	Agree	Neither	Agree	Agree	Neither
13									Neither	Neither	Agree	Neither	Neither	Disagree	Disagree	Disagree	Disagree
14									Neither	Agree	Agree	Neither	Agree	Disagree	Agree	Disagree	Disagree
15									Neither	Agree	Agree	Neither	Agree	Neither	Agree	Neither	Neither
16									Agree	Agree	Agree	Neither	Agree	Neither	Agree	Neither	Agree
17	Strongly ag	Agree	Strongly di	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Strongly ag
18	Agree	Agree	Neither	Neither	Neither	Disagree	Neither	Agree	Strongly di	Agree	Neither	Neither	Neither	Neither	Neither	Disagree	Disagree
19	Agree	Neither	Disagree	Agree	Neither	Strongly ag	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Agree	Agree	Agree
20	Agree	Strongly ag	Strongly ag	Agree	Neither	Disagree	Disagree	Strongly ag	Strongly di	Strongly ag	Agree	Strongly di	Agree	Strongly di	Strongly di	Strongly di	Strongly di
21	Strongly ag	Agree	Neither	Agree	Disagree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Strongly ag
22	Neither	Agree	Agree	Disagree	Disagree	Strongly di	Strongly di	Agree	Neither	Neither	Neither	Neither	Disagree	Neither	Disagree	Neither	Agree
23	Agree	Strongly ag	Disagree	Disagree	Agree	Agree	Disagree	Neither	Disagree	Agree	Neither	Neither	Agree	Disagree	Disagree	Disagree	Disagree
24	Strongly ag	Strongly ag	Agree	Agree	Agree	Strongly ag	Strongly ag	Agree	Agree	Strongly ag	Agree	Disagree	Neither	Agree	Disagree	Disagree	Disagree
25	Agree	Strongly ag	Strongly ag	Disagree	Agree	Neither	Neither	Disagree	Strongly ag	Agree	Neither	Neither	Agree	Neither	Neither	Neither	Neither
26	Agree	Strongly ag	Neither	Neither	Agree	Strongly ag	Disagree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Neither
27	Neither	Agree	Strongly ag	Neither	Disagree	Disagree	Neither	Disagree	Agree	Disagree	Disagree	Disagree	Neither	Disagree	Neither	Strongly di	Strongly di
28	Strongly ag	Agree	Disagree	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Disagree	Disagree	Strongly ag	Agree	Agree	Disagree	Agree	Disagree	Agree
29	Agree	Agree	Neither	Neither	Agree	Agree	Disagree	Agree	Agree	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree
30	Agree	Strongly ag	Disagree	Agree	Agree	Agree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Agree	Agree	Agree	Agree	Agree
31	Agree	Agree	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Strongly ag	Disagree	Agree	Strongly ag	Disagree	Agree	Agree	Agree	Agree	Agree
32	Strongly ag	Neither	Neither	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Disagree	Neither	Neither	Neither	Neither	Neither
33	Agree	Neither	Disagree	Agree	Agree	Agree	Disagree	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree
34	Neither	Neither	Agree	Neither	Neither	Agree	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Neither	Agree	Neither	Neither
35	Agree	Strongly ag	Agree	Disagree	Neither	Disagree	Disagree	Neither	Agree	Disagree	Disagree	Disagree	Neither	Neither	Neither	Disagree	Disagree
36	Agree	Strongly ag	Strongly ag	Neither	Disagree	Strongly di	Disagree	Disagree	Disagree	Disagree	Disagree	Strongly di	Neither	Disagree	Disagree	Disagree	Disagree
37	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree

**Factor Analysis**

Variables:

- I slip into a coma w
- SPSS always cras
- Everybody looks a
- I can't sleep for th
- I wake up under m
- My friends are bett
- If I'm good at statis

Selection Variable:

Value...

OK Paste Reset Cancel Help

Descriptives... Extraction... Rotation... Scores... Options...





1 : Question\_01 2

	Question_0	Question_0	Question_0	Question_0	Question_0	Question_0	Question_0	Question_0	Question_0	Question_1	Question_1	Question_1	Question_1	Question_1	Question_1
1								Neither	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Agree	Agree
2	Str							Agree	Agree	Strongly di	Agree	Agree	Neither	Strongly ag	Neither
3								Agree	Agree	Agree	Agree	Neither	Neither	Agree	Disagree
4								Disagree	Agree	Agree	Disagree	Agree	Agree	Agree	Neither
5								Neither	Agree	Disagree	Agree	Agree	Neither	Neither	Agree
6								Disagree	Agree	Disagree	Neither	Agree	Disagree	Neither	Neither
7								Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree
8								Agree	Agree	Disagree	Agree	Agree	Neither	Agree	Agree
9								ongly di	Strongly di	Neither	Neither	Strongly di	Strongly di	Strongly di	Strongly di
10								Agree	Agree	Neither	Agree	Agree	Neither	Agree	Strongly ag
11								Agree	Agree	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree
12								Neither	Strongly ag	Neither	Agree	Agree	Neither	Agree	Agree
13								Neither	Neither	Agree	Neither	Neither	Disagree	Disagree	Disagree
14								Neither	Agree	Agree	Neither	Agree	Disagree	Agree	Disagree
15								Neither	Agree	Agree	Neither	Agree	Neither	Agree	Neither
16								Agree	Agree	Agree	Neither	Agree	Neither	Agree	Neither
17	Strongly ag							ngly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Agree	Strongly ag
18	Agree							isagree	Neither	Agree	Strongly di	Agree	Neither	Neither	Neither
19	Agree	Neither	Disagree	Agree	Neither	Strongly ag	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Agree
20	Agree	Strongly ag	Strongly ag	Agree	Neither	Disagree	Disagree	Strongly ag	Strongly di	Strongly ag	Agree	Strongly di	Agree	Strongly di	Strongly di
21	Strongly ag	Agree	Neither	Agree	Disagree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Strongly ag
22	Neither	Agree	Agree	Disagree	Disagree	Strongly di	Strongly di	Agree	Neither	Neither	Neither	Neither	Disagree	Neither	Agree
23	Agree	Strongly ag	Disagree	Disagree	Agree	Agree	Disagree	Neither	Disagree	Agree	Neither	Neither	Agree	Disagree	Disagree
24	Strongly ag	Strongly ag	Agree	Agree	Agree	Strongly ag	Strongly ag	Agree	Agree	Strongly ag	Agree	Disagree	Neither	Agree	Disagree
25	Agree	Strongly ag	Strongly ag	Disagree	Agree	Neither	Neither	Disagree	Strongly ag	Agree	Neither	Neither	Agree	Neither	Neither
26	Agree	Strongly ag	Neither	Neither	Agree	Strongly ag	Disagree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Neither
27	Neither	Agree	Strongly ag	Neither	Disagree	Disagree	Neither	Disagree	Agree	Disagree	Disagree	Neither	Disagree	Neither	Strongly di
28	Strongly ag	Agree	Disagree	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Disagree	Disagree	Strongly ag	Agree	Agree	Disagree	Agree
29	Agree	Agree	Neither	Neither	Agree	Agree	Disagree	Agree	Agree	Agree	Agree	Neither	Agree	Agree	Agree
30	Agree	Strongly ag	Disagree	Agree	Agree	Agree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Agree	Agree	Agree	Agree
31	Agree	Agree	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Strongly ag	Disagree	Agree	Strongly ag	Disagree	Agree	Agree	Agree
32	Strongly ag	Neither	Neither	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Disagree	Neither	Neither	Neither
33	Agree	Neither	Disagree	Agree	Agree	Agree	Disagree	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree
34	Neither	Neither	Agree	Neither	Neither	Agree	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Neither	Neither
35	Agree	Strongly ag	Agree	Disagree	Neither	Disagree	Disagree	Neither	Agree	Disagree	Disagree	Disagree	Neither	Neither	Disagree
36	Agree	Strongly ag	Strongly ag	Neither	Disagree	Strongly di	Disagree	Disagree	Disagree	Disagree	Disagree	Strongly di	Neither	Disagree	Disagree
37	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree

**Factor Analysis**

Variables: I slip into a coma w, SPSS always cras

**Factor Analysis: Descriptives**

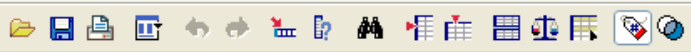
Statistics

- Univariate descriptives
- Initial solution

Correlation Matrix

- Coefficients
- Inverse
- Significance levels
- Reproduced
- Determinant
- Anti-image
- KMO and Bartlett's test of sphericity

Buttons: OK, Paste, Reset, Cancel, Help, Descriptives..., Options...



1 : Question\_01 2

	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1				
1										Neither	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Agree	Agree	Agree	Agree
2	Str									Agree	Agree	Strongly di	Agree	Agree	Neither	Strongly ag	Neither	Disagree	
3										Agree	Agree	Agree	Agree	Neither	Neither	Agree	Disagree	Agree	
4										Disagree	Agree	Agree	Disagree	Agree	Agree	Agree	Agree	Neither	Neither
5										Neither	Agree	Disagree	Agree	Agree	Neither	Neither	Agree	Agree	
6										Disagree	Agree	Disagree	Neither	Agree	Disagree	Neither	Neither	Strongly di	
7										Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	
8										Agree	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree	Neither
9										ongly di	Strongly di	Neither	Neither	Strongly di	Strongly di	Strongly di	Strongly di	Strongly di	Strongly di
10										Agree	Agree	Neither	Agree	Agree	Neither	Agree	Strongly ag	Agree	
11										Agree	Agree	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Strongly ag	
12										Neither	Strongly ag	Neither	Agree	Agree	Neither	Agree	Agree	Neither	
13										Neither	Neither	Agree	Neither	Neither	Disagree	Disagree	Disagree	Disagree	
14										Neither	Agree	Agree	Neither	Agree	Disagree	Agree	Disagree	Disagree	
15										Neither	Agree	Agree	Neither	Agree	Neither	Agree	Neither	Neither	
16										Agree	Agree	Agree	Neither	Agree	Neither	Agree	Neither	Agree	
17	Strongly ag	Agree	Strongly di	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Strongly ag	
18	Agree	Agree	Neither	Neither	Neither	Disagree	Neither	Agree	Strongly di	Agree	Neither	Neither	Neither	Neither	Neither	Disagree			
19	Agree	Neither	Disagree	Agree	Neither	Strongly ag	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Agree				
20	Agree	Strongly ag	Strongly ag	Agree	Neither	Disagree	Disagree	Strongly ag	Strongly di	Strongly ag	Agree	Strongly di	Agree	Strongly di	Strongly di	Strongly di			
21	Strongly ag	Agree	Neither	Agree	Disagree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Strongly ag			
22	Neither	Agree	Agree	Disagree	Disagree	Strongly di	Strongly di	Agree	Neither	Neither	Neither	Neither	Disagree	Neither	Disagree	Agree			
23	Agree	Strongly ag	Disagree	Disagree	Agree	Agree	Disagree	Neither	Disagree	Agree	Neither	Neither	Agree	Disagree	Disagree				
24	Strongly ag	Strongly ag	Agree	Agree	Agree	Strongly ag	Strongly ag	Agree	Agree	Strongly ag	Agree	Disagree	Neither	Agree	Disagree				
25	Agree	Strongly ag	Strongly ag	Disagree	Agree	Neither	Neither	Disagree	Strongly ag	Agree	Neither	Neither	Agree	Neither	Neither				
26	Agree	Strongly ag	Neither	Neither	Agree	Strongly ag	Disagree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree				
27	Neither	Agree	Strongly ag	Neither	Disagree	Disagree	Neither	Disagree	Agree	Disagree	Disagree	Neither	Disagree	Neither	Disagree				
28	Strongly ag	Agree	Disagree	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Disagree	Disagree	Strongly ag	Agree	Agree	Disagree	Agree				
29	Agree	Agree	Neither	Neither	Agree	Agree	Disagree	Agree	Agree	Agree	Agree	Agree	Neither	Agree	Agree				
30	Agree	Strongly ag	Disagree	Agree	Agree	Agree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Agree	Agree	Agree				
31	Agree	Agree	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Strongly ag	Disagree	Agree	Strongly ag	Disagree	Agree	Agree	Agree				
32	Strongly ag	Neither	Neither	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Disagree	Neither	Neither	Neither				
33	Agree	Neither	Disagree	Agree	Agree	Agree	Disagree	Agree	Disagree	Agree	Agree	Agree	Neither	Agree	Agree				
34	Neither	Neither	Agree	Neither	Neither	Agree	Neither	Agree	Disagree	Agree	Agree	Agree	Neither	Agree	Neither				
35	Agree	Strongly ag	Agree	Disagree	Neither	Disagree	Disagree	Neither	Agree	Disagree	Disagree	Disagree	Neither	Neither	Disagree				
36	Agree	Strongly ag	Strongly ag	Neither	Disagree	Strongly di	Disagree	Disagree	Disagree	Disagree	Disagree	Strongly di	Neither	Disagree	Disagree				
37	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree				

**Factor Analysis**

Variables:

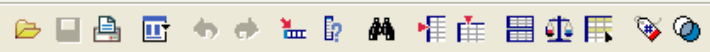
- I slip into a coma w
- SPSS always cras
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Selection Variable:

Value...

OK Paste Reset Cancel Help

Descriptives... Extraction... Rotation... Scores... Options...



1 : Question\_01 2

	Question_0	Question_0	Question_0	Question_0	Question_0	Question_0	Question_0	Question_0	Question_0	Question_1	Question_1	Question_1	Question_1	Question_1	Question_1
1										3	1	1	2	1	2
2										2	2	5	2	2	3
3										2	2	2	2	3	3
4										4	2	2	4	2	2
5										3	2	4	2	2	3
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7										2	2	3	2	2	2
8										2	2	4	2	2	3
9										5	5	3	3	5	5
10										2	2	3	2	2	3
11										2	2	5	2	1	3
12										3	1	3	2	2	2
13										3	3	2	3	3	4
14										3	2	2	3	2	4
15										3	2	2	3	2	3
16										2	2	2	3	2	3
17										1	1	4	1	1	2
18										3	2	5	2	3	3
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26	2	1	3	3	2	1	4	2	3	2	2	2	2	2	3
27	3	2	1	3	4	4	3	4	2	4	4	3	4	3	5
28	1	2	4	1	1	5	2	1	4	4	1	2	2	4	2
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33	2	3	4	2	2	2	4	2	4	2	2	3	2	2	2
34	3	3	2	3	3	2	3	2	4	2	2	3	2	3	3
35	2	1	2	4	3	4	4	3	4	4	4	4	3	3	4
36	2	1	1	3	4	5	4	4	4	5	3	4	4	4	4

**Factor Analysis**

Variables: Statistics makes me, My friends will think

Method: Principal components

Analyze:  Correlation matrix,  Covariance matrix

Display:  Unrotated factor solution,  Scree plot

Extract:  Eigenvalues over: 1,  Number of factors:

Maximum Iterations for Convergence: 25

Buttons: OK, Paste, Continue, Cancel, Help



1 : Question\_01 2

	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1
1										Neither	Strongly ag	Strongly ag	Agree	Strongly ag	Agree
2	Str									Agree	Agree	Strongly di	Agree	Agree	Neither
3										Agree	Agree	Agree	Agree	Neither	Neither
4										Disagree	Agree	Agree	Disagree	Agree	Agree
5										Neither	Agree	Disagree	Agree	Agree	Neither
6										Disagree	Agree	Disagree	Neither	Agree	Disagree
7										Agree	Agree	Neither	Agree	Agree	Agree
8										Agree	Agree	Disagree	Agree	Agree	Neither
9										ongly di	Strongly di	Neither	Neither	Strongly di	Strongly di
10										Agree	Agree	Neither	Agree	Agree	Neither
11										Agree	Agree	Strongly di	Agree	Strongly ag	Neither
12										Neither	Strongly ag	Neither	Agree	Agree	Neither
13										Neither	Neither	Agree	Neither	Neither	Disagree
14										Neither	Agree	Agree	Neither	Agree	Disagree
15										Neither	Agree	Agree	Neither	Agree	Neither
16										Agree	Agree	Agree	Neither	Agree	Neither
17	Strongly ag	Agree	Strongly di	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag
18	Agree	Agree	Neither	Neither	Neither	Disagree	Neither	Agree	Strongly di	Agree	Neither	Neither	Neither	Neither	Disagree
19	Agree	Neither	Disagree	Agree	Neither	Strongly ag	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Agree
20	Agree	Strongly ag	Strongly ag	Agree	Neither	Disagree	Disagree	Strongly ag	Strongly di	Strongly ag	Agree	Strongly di	Agree	Strongly di	Strongly di
21	Strongly ag	Agree	Neither	Agree	Disagree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Strongly ag
22	Neither	Agree	Agree	Disagree	Disagree	Strongly di	Strongly di	Agree	Neither	Neither	Neither	Neither	Disagree	Neither	Agree
23	Agree	Strongly ag	Disagree	Disagree	Agree	Agree	Disagree	Neither	Disagree	Agree	Neither	Neither	Agree	Disagree	Disagree
24	Strongly ag	Strongly ag	Agree	Agree	Agree	Strongly ag	Strongly ag	Agree	Agree	Strongly ag	Agree	Disagree	Neither	Agree	Disagree
25	Agree	Strongly ag	Strongly ag	Disagree	Agree	Neither	Neither	Disagree	Strongly ag	Agree	Neither	Neither	Agree	Neither	Neither
26	Agree	Strongly ag	Neither	Neither	Agree	Strongly ag	Disagree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Neither
27	Neither	Agree	Strongly ag	Neither	Disagree	Disagree	Neither	Disagree	Agree	Disagree	Disagree	Neither	Disagree	Neither	Strongly di
28	Strongly ag	Agree	Disagree	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Disagree	Disagree	Strongly ag	Agree	Agree	Disagree	Agree
29	Agree	Agree	Neither	Neither	Agree	Agree	Disagree	Agree	Agree	Agree	Agree	Neither	Agree	Agree	Agree
30	Agree	Strongly ag	Disagree	Agree	Agree	Agree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Agree	Agree	Agree	Agree
31	Agree	Agree	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Strongly ag	Disagree	Agree	Strongly ag	Disagree	Agree	Agree	Agree
32	Strongly ag	Neither	Neither	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Disagree	Neither	Neither	Neither
33	Agree	Neither	Disagree	Agree	Agree	Agree	Disagree	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree
34	Neither	Neither	Agree	Neither	Neither	Agree	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Neither	Neither
35	Agree	Strongly ag	Agree	Disagree	Neither	Disagree	Disagree	Neither	Agree	Disagree	Disagree	Disagree	Neither	Neither	Disagree
36	Agree	Strongly ag	Strongly ag	Neither	Disagree	Strongly di	Disagree	Disagree	Disagree	Disagree	Strongly di	Neither	Disagree	Disagree	Disagree
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- If I'm good at statis

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Value...

OK Paste Reset Cancel Help

Descriptives... Extraction... **Rotation...** Scores... Options...



1 : Question\_01 2

	Question_01	Question_02	Question_03	Question_04	Question_05	Question_06	Question_07	Question_08	Question_09	Question_10	Question_11	Question_12	Question_13	Question_14	Question_15
1							3	1	1	2	1	2	2	2	2
2							2	2	5	2	2	3	1	3	4
3							2	2	2	2	3	3	2	4	2
4							4	2	2	4	2	2	2	3	3
5							3	2	4	2	2	3	3	2	2
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8							2	2	4	2	2	3	2	2	3
9							5	5	3	3	5	5	5	5	5
10							2	2	3	2	2	3	2	1	2
11							2	2	5	2	1	3	1	2	1
12							3	1	3	2	2	3	2	2	3
13							3	3	2	3	3	4	4	4	4
14							3	2	2	3	2	4	2	4	4
15							3	2	2	3	2	3	2	3	3
16							2	2	2	3	2	3	2	3	2
17	1						1	1	1	4	1	1	2	1	1
18	2						4	3	2	5	2	3	3	3	4
19	2	3					1	1	1	5	2	1	3	1	2
20	2	1	1				4	4	1	5	1	2	5	2	5
21	1	2	3				1	2	1	1	1	4	1	1	1
22	3	2	2	4			5	5	2	3	3	3	4	3	2
23	2	1	4	4			2	4	3	4	2	3	2	4	4
24	1	1	2	2			1	1	2	2	1	2	4	3	2
25	2	1	1	4			3	3	4	1	2	3	3	2	3
26	2	1	3	3			2	1	4	2	3	2	2	2	3
27	3	2	1	3			4	4	3	4	2	4	4	3	5
28	1	2	4	1			5	2	1	4	4	1	2	2	4
29	2	2	3	3			2	4	2	2	2	2	3	2	2
30	2	1	4	2			2	1	2	1	1	2	2	2	2
31	2	2	1	1			2	1	4	2	1	4	2	2	2
32	1	3	3	2			2	3	2	2	2	4	3	3	3
33	2	3	4	2			2	4	2	4	2	2	3	2	2
34	3	3	2	3			2	3	2	4	2	3	2	3	3
35	2	1	2	4			4	4	3	2	4	4	3	3	4
36	2	1	1	3			4	4	4	4	4	5	4	4	4

**Factor Analysis**

Variables:  
Statistics makes me  
My friends will think

**Factor Analysis: Rotation**

Method

- None
- Varimax
- Direct Oblimin
- Quartimax
- Equamax
- Promax

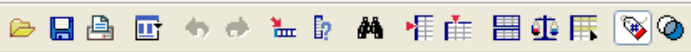
Delta: 0 Kappa: 4

Display

- Rotated solution
- Loading plot(s)

Maximum Iterations for Convergence: 25

Buttons: OK, Paste, Reset, Cancel, Help, Descript...



1 : Question\_01 2

	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 0	Question 1	Question 1	Question 1	Question 1	Question 1	Question 1		
1									Neither	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Agree	Agree	Agree
2	Str								Agree	Agree	Strongly di	Agree	Agree	Neither	Strongly ag	Neither	Disagree
3									Agree	Agree	Agree	Agree	Neither	Neither	Agree	Disagree	Agree
4									Disagree	Agree	Agree	Disagree	Agree	Agree	Agree	Neither	Neither
5									Neither	Agree	Disagree	Agree	Agree	Neither	Neither	Agree	Agree
6									Disagree	Agree	Disagree	Neither	Agree	Disagree	Neither	Neither	Strongly di
7									Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree
8									Agree	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Neither
9									ongly di	Strongly di	Neither	Neither	Strongly di	Strongly di	Strongly di	Strongly di	Strongly di
10									Agree	Agree	Neither	Agree	Agree	Neither	Agree	Strongly ag	Agree
11									Agree	Agree	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Strongly ag
12									Neither	Strongly ag	Neither	Agree	Agree	Neither	Agree	Agree	Neither
13									Neither	Neither	Agree	Neither	Neither	Disagree	Disagree	Disagree	Disagree
14									Neither	Agree	Agree	Neither	Agree	Disagree	Agree	Disagree	Disagree
15									Neither	Agree	Agree	Neither	Agree	Neither	Agree	Neither	Neither
16									Agree	Agree	Agree	Neither	Agree	Neither	Agree	Neither	Agree
17	Strongly ag	Agree	Strongly di	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag
18	Agree	Agree	Neither	Neither	Neither	Disagree	Neither	Agree	Strongly di	Agree	Neither	Neither	Neither	Neither	Neither	Disagree	Disagree
19	Agree	Neither	Disagree	Agree	Neither	Strongly ag	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Neither	Strongly ag	Agree	Agree	Agree	Agree
20	Agree	Strongly ag	Strongly ag	Agree	Neither	Disagree	Disagree	Strongly ag	Strongly di	Strongly ag	Agree	Strongly di	Agree	Strongly di	Strongly di	Strongly di	Strongly di
21	Strongly ag	Agree	Neither	Agree	Disagree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Disagree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Strongly ag
22	Neither	Agree	Agree	Disagree	Disagree	Strongly di	Strongly di	Agree	Neither	Neither	Neither	Neither	Disagree	Neither	Disagree	Neither	Agree
23	Agree	Strongly ag	Disagree	Disagree	Agree	Agree	Disagree	Neither	Disagree	Agree	Neither	Neither	Agree	Disagree	Disagree	Disagree	Disagree
24	Strongly ag	Strongly ag	Agree	Agree	Agree	Strongly ag	Strongly ag	Agree	Agree	Strongly ag	Agree	Disagree	Neither	Agree	Disagree	Disagree	Disagree
25	Agree	Strongly ag	Strongly ag	Disagree	Agree	Neither	Neither	Disagree	Strongly ag	Agree	Neither	Neither	Agree	Neither	Neither	Neither	Neither
26	Agree	Strongly ag	Neither	Neither	Agree	Strongly ag	Disagree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Neither
27	Neither	Agree	Strongly ag	Neither	Disagree	Disagree	Neither	Disagree	Agree	Disagree	Disagree	Disagree	Neither	Disagree	Neither	Strongly di	Strongly di
28	Strongly ag	Agree	Disagree	Strongly ag	Strongly ag	Strongly di	Agree	Strongly ag	Disagree	Disagree	Strongly ag	Agree	Agree	Disagree	Agree	Disagree	Agree
29	Agree	Agree	Neither	Neither	Agree	Agree	Disagree	Agree	Agree	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree
30	Agree	Strongly ag	Disagree	Agree	Agree	Agree	Strongly ag	Agree	Strongly ag	Strongly ag	Strongly ag	Strongly ag	Agree	Agree	Agree	Agree	Agree
31	Agree	Agree	Strongly ag	Strongly ag	Agree	Strongly ag	Agree	Strongly ag	Disagree	Agree	Strongly ag	Disagree	Agree	Agree	Agree	Agree	Agree
32	Strongly ag	Neither	Neither	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Disagree	Neither	Neither	Neither	Neither	Neither
33	Agree	Neither	Disagree	Agree	Agree	Agree	Disagree	Agree	Disagree	Agree	Agree	Agree	Neither	Agree	Agree	Agree	Agree
34	Neither	Neither	Agree	Neither	Neither	Agree	Neither	Agree	Disagree	Agree	Agree	Agree	Neither	Agree	Neither	Neither	Neither
35	Agree	Strongly ag	Agree	Disagree	Neither	Disagree	Disagree	Neither	Agree	Disagree	Disagree	Disagree	Disagree	Neither	Neither	Disagree	Disagree
36	Agree	Strongly ag	Strongly ag	Neither	Disagree	Strongly di	Disagree	Disagree	Disagree	Disagree	Disagree	Strongly di	Neither	Disagree	Disagree	Disagree	Disagree
37	Neither	Agree	Disagree	Agree	Agree	Neither	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree	Agree

**Factor Analysis**

Variables:

- I slip into a coma w
- SPSS always cras
- Everybody looks a
- I can't sleep for th
- I wake up under m
- My friends are bett
- If I'm good at statis

Selection Variable:

Value...

OK Paste Reset Cancel Help

Descriptives... Extraction... Rotation... Scores... Options...



### KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.930
Bartlett's Test of Sphericity	Approx. Chi-Square	19334.492
	df	253
	Sig.	.000

→ >0.5

→ <0.05

# Anti-Image Matrices

Anti-image Matrices

		Statiscs makes me cry	My friends will think I'm stupid for not being able to cope with SPSS	Standard deviations excite me	I dream that Pearson is attacking me with correlation coefficients	I don't understand statistics	I have little experience of computers	All computers hate me	I have never been good at mathematics	My friends are better at statistics than me
Anti-image Covariance	Everybody looks at me when I use SPSS	.009	-.023	-.083	-.024	-.013	-.010	.044	.030	-.087
	I can't sleep for thoughts of eigen vectors	-.011	.045	.052	-.003	-.008	.033	.030	.013	.029
	I wake up under my duvet thinking that I am trapped under a normal distribution	.004	.028	.040	-.050	-.029	.022	-.112	-.011	-.020
	My friends are better at SPSS than I am	.001	-.100	-.005	-.023	.027	.028	.008	-.015	-.101
	If I'm good at statistics my friends will think I'm a nerd	-.045	-.002	-.057	-.013	-.004	.013	-.006	.002	-.078
Anti-image Correlation	Statiscs makes me cry	.930 <sup>a</sup>	-.020	.053	-.167	-.156	.020	.023	-.049	-.016
	My friends will think I'm stupid for not being able to cope with SPSS	-.020	.875 <sup>a</sup>	.041	-.041	.010	-.053	.016	-.033	-.193
	Standard deviations excite me	.053	-.157	.951 <sup>a</sup>	.084	.037	-.042	.072	-.007	-.142
	I dream that Pearson is attacking me with correlation coefficients	-.167	-.041	.084	.955 <sup>a</sup>	.034	-.007	-.087	-.075	.030
	I don't understand statistics	-.156	.010	.037	-.134	.960 <sup>a</sup>	-.035	-.044	-.027	-.020
	I have little experience of computers	.020	-.053	-.042	-.007	-.035	.891 <sup>a</sup>	.024	-.024	.011
	All computers hate me	.023	.016	.072	-.087	-.044	-.275	.942 <sup>a</sup>	-.015	-.030
	I have never been good at mathematics	-.049	-.033	-.007	-.075	-.027	.024	-.015	.871 <sup>a</sup>	-.099
	My friends are better at statistics than me	-.016	-.193	-.142	.030	-.020	.011	-.030	-.099	.834 <sup>a</sup>
	Computers are useful only for playing games	-.012	-.012	-.016	.006	-.093	-.116	-.033	.051	.043
	I did badly at mathematics at school	-.041	.038	.064	-.022	-3.27E-005	-.084	.045	-.412	.037
	People try to tell you that SPSS makes statistics easier to understand but it	-.007	.031	.087	-.154	-.058	.045	-.043	.033	-.003

→ >0.5

→ >0.5

→ >0.5



### Communalities

	Initial	Extraction
Statistics makes me cry	1,000	,435
My friends will think I'm stupid for not being able to cope with SPSS	1,000	,414
Standard deviations excite me	1,000	,530
I dream that Pearson is attacking me with correlation coefficients	1,000	,469
I don't understand statistics	1,000	,343
I have little experience of computers	1,000	,654
All computers hate me	1,000	,545
I have never been good at mathematics	1,000	,739
My friends are better at statistics than me	1,000	,484
Computers are useful only for playing games	1,000	,335
I did badly at mathematics at school	1,000	,690
People try to tell you that SPSS makes statistics	1,000	,512



- Sekitar 43,5% varians dari variabel Statistics makes me cry dapat dijelaskan oleh Faktor yang nantinya terbentuk.
- Semakin kecil communalities sebuah variabel, semakin lemah hubungannya dengan faktor yang terbentuk.

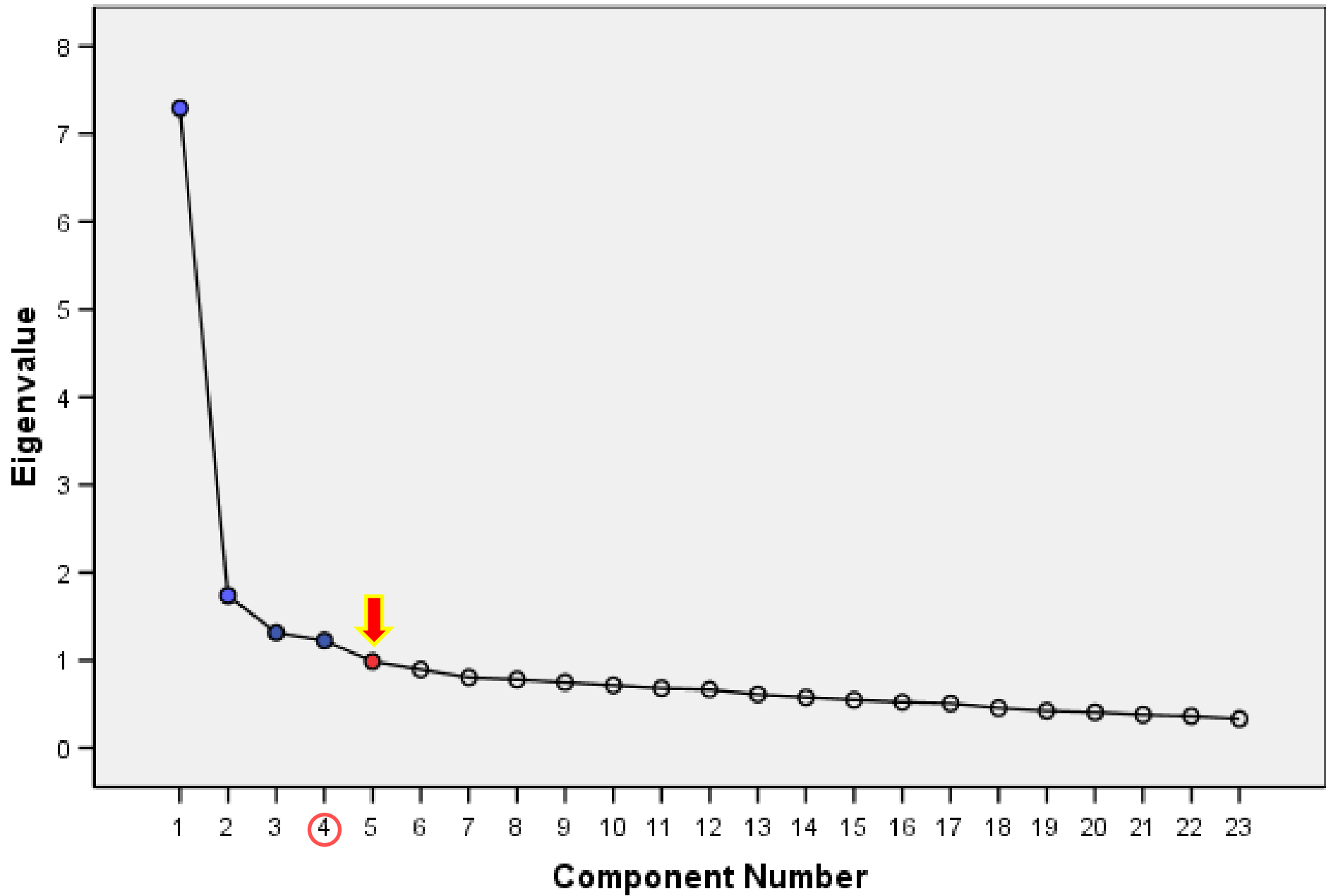
### Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	7,290	31,696	31,696	7,290	31,696	31,696	3,730	16,219	16,219
2	1,739	7,560	39,256	1,739	7,560	39,256	3,340	14,523	30,742
3	1,317	5,725	44,981	1,317	5,725	44,981	2,553	11,099	41,841
4	1,227	5,336	50,317	1,227	5,336	50,317	1,950	8,476	50,317
5	,988	4,295	54,612						
6	,895	3,893	58,504						
7	,806	3,502	62,007						
8	,783	3,404	65,410						
9	,751	3,265	68,676						
10	,717	3,117	71,793						
11	,684	2,972	74,765						
12	,670	2,911	77,676						
13	,612	2,661	80,337						
14	,578	2,512	82,849						
15	,549	2,388	85,236						
16	,523	2,275	87,511						
17	,508	2,210	89,721						
18	,456	1,982	91,704						
19	,424	1,843	93,546						
20	,408	1,773	95,319						
21	,379	1,650	96,969						
22	,364	1,583	98,552						
23	,333	1,448	100,000						

Extraction Method: Principal Component Analysis.

- Total keempat faktor dapat menjelaskan 50,31% dari variabilitas 23 variabel asli di atas.

# Scree Plot



## Component Matrix

	Component			
	1	2	3	4
Statistics makes me cry	,586	,175	-,215	,119
My friends will think I'm stupid for not being able to cope with SPSS	-,303	,548	,146	,010
Standard deviations excite me	-,629	,290	,213	-,067
I dream that Pearson is attacking me with correlation coefficients	,634	,144	-,149	,153
I don't understand statistics	,556	,101	-,074	,137
I have little experience of computers	,562	,097	,571	-,048
All computers hate me	,685	,039	,252	,103
I have never been good at mathematics	,549	,401	-,323	-,417
My friends are better at statistics than me	-,284	,627	-,008	,103
Computers are useful only for playing games	,437	,035	,363	-,103
I did badly at mathematics at school	,652	,245	-,209	-,400
People try to tell you that SPSS makes statistics easier to understand but it	,669	-,048	,051	,248

- Sesuai dengan jumlah faktor yg di dapat (hasil sbm dilakukan proses rotasi)

Rotated Component Matrix

	Component			
	1	2	3	4
Statistics makes me cry	,241	,496	,356	,061
My friends will think I'm stupid for not being able to cope with SPSS	-,005	-,338	,068	,543
Standard deviations excite me	-,203	-,567	-,180	,368
I dream that Pearson is attacking me with correlation coefficients	,320	,516	,314	,039
I don't understand statistics	,319	,429	,238	,015
I have little experience of computers	,800	-,010	,097	-,072
All computers hate me	,638	,327	,155	-,082
I have never been good at mathematics	,131	,168	,833	,005
My friends are better at statistics than me	-,094	-,204	,118	,648
Computers are useful only for playing games	,550	,001	,130	-,123
I did badly at mathematics at school	,263	,206	,747	-,143
People try to tell you that SPSS makes statistics easier to understand but it doesn't	,473	,523	,095	-,084





SEKIAN SHARING UNTUK  
ANALISIS FAKTOR

SELANJUTNYA ANALISIS CLUSTER  
ATAU ANALISIS JALUR