

KUESIONER PENDAHULUAN

Kepada Yth. Bapak/Ibu Responden Pembeli Beras,

Kuesioner ini dibagikan kepada Anda sebagai kuesioner awal untuk mengetahui atribut-atribut apa saja yang mempengaruhi Anda dalam membeli dan mengonsumsi beras berkualitas sedang, serta untuk mengetahui beras merek apa saja yang sering Anda beli dan konsumsi. Terima kasih atas kesediaan Bapak/Ibu mengisi kuesioner ini.

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Berilah tanda *Checklist* (✓) pada atribut yang Anda anggap penting dalam membeli dan mengonsumsi beras berkualitas sedang! (boleh lebih dari 1 jawaban)

- | | |
|---|--|
| ☐ () Kemenarikan warna beras | ☐ () Kejelasan label Harga Eceran Tertinggi (HET) pada kemasan |
| ☐ () Keutuhan butiran beras | ☐ () Kesesuaian antara harga beras dengan kualitas beras |
| ☐ () Kesesuaian berat beras yang dikemas dengan berat sesungguhnya | ☐ () Harga jual beras yang bersaing |
| ☐ () Ketahanan beras terhadap waktu dalam hal penyimpanan (mis: mudah/tidak mudah lapuk atau berketu dalam waktu 6 bulan) | ☐ () Kemudahan mendapatkan beras di setiap penjual grosir beras, warung, dan lainnya |
| ☐ () Ketahanan beras terhadap waktu setelah dimasak (mis: mudah/tidak mudah basi) | ☐ () Kemudahan konsumen untuk memesan langsung ke perusahaan |
| ☐ () Kepulenan beras setelah dimasak menjadi nasi | ☐ () Kemenarikan iklan di media cetak |
| ☐ () Keharuman beras setelah dimasak menjadi nasi | ☐ () Kemenarikan iklan di media elektronik |
| ☐ () Kemenarikan kemasan beras | ☐ () Kemenarikan potongan harga untuk sejumlah pembelian tertentu |
| ☐ () Kualitas (ketahanan) kemasan beras | ☐ () Kemenarikan iklan pemasaran pada poster yang dipasang di pasar |
| ☐ () Variasi kemasan ukuran beras | ☐ () Kemenarikan brosur yang dibagikan di pasar |
| ☐ () Kejelasan jaminan kehalalan beras pada kemasan | ☐ () Kemudahan mendapatkan <i>tester</i> (sampel) beras sebelum membeli |
| ☐ () Kejelasan tanggal kadaluarsa beras pada kemasan | |

Selain **Beras Ayam Jago**, beras yang sering Anda beli dan konsumsi (boleh lebih dari 1 jawaban):

- ☐ () Sejahtera Jaya (SJ)
- ☐ () Pesawat
- ☐ () Delima
- ☐ () Dua Koki
- ☐ () Lainnya:

KUESIONER PENELITIAN

Yth. Bapak/Ibu Responden Konsumen Beras Ayam Jago,

Dalam rangka penyusunan Tugas Akhir pada jurusan Teknik Industri di Universitas Kristen Maranatha Bandung, dengan judul **“Analisis dan Usulan Strategi Pemasaran Produk Beras pada CV Cempaka Jaya”**, dengan segala kerendahan hati saya mohon bantuan Anda untuk meluangkan waktu guna mengisi kuesioner penelitian ini. Terima kasih atas kesediaan Bapak/Ibu untuk meluangkan waktu dan mengisi kuesioner ini.

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Bagian I

Berilah tanda *Checklist* (✓) pada pilihan Anda! (hanya 1 jawaban)

1. Pekerjaan:
☐ Ibu rumah tangga ☐ Penjual Makanan ☐ Karyawan ☐ Wiraswasta ☐ Lainnya:
2. Penghasilan per bulan:
☐ < Rp 1.000.000,- ☐ Rp 1.000.000,- sampai Rp 3.000.000,- ☐ Rp 3.000.001,- sampai Rp 5.000.000,- ☐ > Rp 5.000.000,-
3. Tempat tinggal:
☐ Metro Barat (Ganjar Agung, Ganjar Asri, Mulyojati, Mulyosari) ☐ Metro Timur (Yosodadi, Iringmulyo, Tejo Agung, Yosorejo, Tejo Sari)
☐ Metro Pusat (Imopuro, Metro, Yosomulyo, Hadimulyo Barat, Hadimulyo Timur) ☐ Metro Utara (Banjar Sari, Purwo Asri, Karang Rejo)
☐ Metro Selatan (Mogodadi, Margo Rejo, Summersari, Rejomulyo) ☐ Lainnya:
4. Lokasi membeli beras:
☐ Metro Barat (Ganjar Agung, Ganjar Asri, Mulyojati, Mulyosari) ☐ Metro Timur (Yosodadi, Iringmulyo, Tejo Agung, Yosorejo, Tejo Sari)
☐ Metro Pusat (Imopuro, Metro, Yosomulyo, Hadimulyo Barat, Hadimulyo Timur) ☐ Metro Utara (Banjar Sari, Purwo Asri, Karang Rejo)
☐ Metro Selatan (Mogodadi, Margo Rejo, Summersari, Rejomulyo) ☐ Lainnya:
5. Tempat membeli beras:
☐ Pedagang Grosir ☐ Warung ☐ Minimarket ☐ Supermarket ☐ Lainnya:
6. Cara mengetahui beras Ayam Jago:
☐ Pedagang Grosir ☐ Mencoba Sendiri ☐ Teman ☐ Poster ☐ Lainnya:
7. Banyaknya pembelian beras setiap belanja bulanan:
☐ 1 – 2 karung beras (@10 kg) ☐ 3 – 5 karung beras (@10 kg) ☐ 6 – 8 karung beras (@10 kg) ☐ Lainnya:
8. Harga beras yang biasanya dibeli:
☐ Kurang dari Rp 7.000,- ☐ Rp 7.001,- sampai Rp 8.000,- ☐ Rp 8.001,- sampai Rp 9.000,- ☐ Lainnya:

Bagian II

Berilah tanda silang (X), *checklist* (✓), atau lingkari jawaban Anda! (hanya 1 jawaban)

Pada kolom **Kepentingan**, pilihlah angka yang menurut Anda sesuai untuk menilai tingkat kepentingan (seberapa penting hal-hal berikut) dalam membeli dan mengonsumsi produk beras berkualitas sedang (kisaran harga Rp 8.000,-)!

1 → Sangat Tidak Penting (STP)

2 → Tidak Penting (TP)

3 → Penting (P)

4 → Sangat Penting (SP)

Pada kolom **Performansi**, pilihlah angka yang menurut Anda sesuai untuk menilai tingkat performansi (seberapa baik kinerja) beras Ayam Jago!

1 → Sangat Tidak Baik (STB)

2 → Tidak Baik (TB)

3 → Baik (B)

4 → Sangat Baik (SB)

Pada Kolom **Peringkat**, berilah tanda silang (X) atau *checklist* (✓) pada merek beras yang menurut Anda lebih baik!

Kepentingan				Variabel	Performansi				Peringkat	
STP	TP	P	SP	Product	STB	TB	B	SB	Ayam Jago	Delima
1	2	3	4	Kemenarikan warna beras	1	2	3	4		
1	2	3	4	Keutuhan butiran beras	1	2	3	4		
1	2	3	4	Kesesuaian berat beras yang dikemas dengan berat sesungguhnya	1	2	3	4		
1	2	3	4	Ketahanan beras terhadap waktu dalam hal penyimpanan (mis: mudah/tidak mudah lapuk atau berketu dalam waktu 6 bulan)	1	2	3	4		
1	2	3	4	Ketahanan beras terhadap waktu setelah dimasak (mis: mudah/tidak mudah basi)	1	2	3	4		
1	2	3	4	Kepulenan beras setelah dimasak menjadi nasi	1	2	3	4		
1	2	3	4	Keharuman beras setelah dimasak menjadi nasi	1	2	3	4		
1	2	3	4	Kualitas (ketahanan) kemasan beras	1	2	3	4		
1	2	3	4	Kejelasan tanggal kadaluarsa beras pada kemasan	1	2	3	4		
				Price						
1	2	3	4	Kesesuaian antara harga beras dengan kualitas beras	1	2	3	4		
1	2	3	4	Harga jual beras yang bersaing	1	2	3	4		
				Place						
1	2	3	4	Kemudahan mendapatkan beras di setiap penjual grosir beras, warung, dan lainnya	1	2	3	4		
1	2	3	4	Kemudahan konsumen untuk memesan langsung ke perusahaan	1	2	3	4		
				Promotion						
1	2	3	4	Kemenarikan potongan harga untuk sejumlah pembelian tertentu	1	2	3	4		
1	2	3	4	Kemudahan mendapatkan <i>tester</i> (sampel) beras sebelum membeli	1	2	3	4		

Responden	Pernyataan																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓
2	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓			✓			
3			✓	✓	✓	✓	✓	✓	✓			✓	✓			✓	✓			✓			✓
4	✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓		✓	✓			✓			✓
5	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓		✓	✓			✓			✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓				✓
8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓			✓			✓
9	✓	✓	✓	✓	✓	✓	✓		✓			✓		✓	✓	✓	✓			✓	✓		✓
10	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓				✓		✓	✓
12	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓
13	✓	✓	✓			✓		✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
15	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓	✓					✓			✓
16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓			✓		✓	✓
17	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓				✓	✓	✓	✓
18	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		✓		✓	✓
19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓		✓	✓		✓
20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21	✓	✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓			✓	✓		
22	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
23	✓	✓		✓		✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓				✓	
24	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓			✓			✓
25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓				✓
26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓				✓			✓
27	✓	✓	✓	✓							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓
29	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓				✓	✓	✓	✓
30	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓		✓	✓

Responden	Kompetitor				
	Sejahtera Jaya (SJ)	Pesawat	Delima	Dua Koki	Lainnya
1	✓			✓	
2				✓	✓
3					✓
4		✓	✓		
5			✓		
6		✓			✓
7	✓				✓
8		✓			
9		✓	✓		
10		✓	✓	✓	
11		✓		✓	
12		✓	✓		
13			✓		
14		✓	✓		
15			✓		
16			✓		
17			✓		
18			✓		
19		✓	✓		
20			✓		
21			✓	✓	
22		✓	✓		
23			✓		
24			✓		
25	✓			✓	
26		✓	✓		✓
27			✓		
28	✓		✓		
29			✓		
30			✓		

Tingkat Kepesertaan																																		
Reponden	Pernyataan															Reponden	Pernyataan																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
1	4	3	3	3	3	4	3	4	4	3	3	3	4	3	3	61	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
2	4	4	3	3	4	4	3	4	3	3	3	3	4	3	3	62	4	3	3	3	3	4	3	4	4	3	3	3	3	3	3	3	3	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	63	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
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41	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	101	3	3	2	4	3	2	4	3	3	3	4	4	3	4	3	4	3	
42	3	4	4	4	4	3	4	4	3	3	4	4	4	4	3	102	3	4	4	3	3	3	4	3	3	3	3	3	3	3	3	4	4	4
43	4	3	3	3	3	4	3	3	4	3	3	3	3	3	4	103	3	4	4	2	3	3	3	3	3	3	3	3	2	4	3	4	3	
44	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	104	3	3	3	4	4	3	3	3	3	3	3	3	4	3	4	3	4	
45	2	2	2	3	3	3	3	3	2	2	3	3	3	3	3	105	3	3	4	4	3	4	3	4	4	4	4	4	4	3	3	4	4	
46	4	3	3	3	3	4	3	4	3	3	3	3	4	3	3	106	4	3	3	3	3	4	4	3	3	4	3	3	4	4	4	4	4	
47	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	107	3	3	3	3	4	3	4	3	3	3	4	3	3	4	3	4	3	
48	3	3	3	3	3	4	4	4	4	3	3	3	4	4	3	108	3	3	4	4	3	4	4	4	4	3	3	4	3	4	4	4	4	
49	3	3	3	4	4	3	3	4	3	3	3	4	3	3	3	109	4	4	4	3	4	3	3	4	4	3	4	3	3	4	3	3	3	
50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	110	3	3	4	3	3	4	4	3	3	3	3	3	3	3	4	3	3	
51	4	4	3	3	3	4	3	4	4	3	3	3	3	3	3	111	3	3	4	3	3	4	3	4	3	4	2	3	3	3	3	4	4	
52	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	112	4	3	3	4	4	3	3	3	3	3	3	4	4	3	3	3	3	
53	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	113	4	3	4	3	4	4	3	3	4	4	3	3	3	3	3	3	3	
54	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	114	3	4	3	4	3	3	3	4	3	4	3	4	3	3	3	4	4	
55	4	4	3	3</																														

Tingkat Performansi																																			
Responden	Pernyataan															Responden	Pernyataan																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
1	4	3	4	2	3	3	3	3	4	3	3	2	3	2	3	61	3	2	2	2	2	2	2	2	2	2	2	2	3	2	3				
2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	62	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	3			
3	3	3	3	1	3	3	3	3	3	3	3	2	4	1	4	63	3	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3			
4	3	2	3	1	3	3	3	3	3	3	3	3	3	2	3	64	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	2			
5	2	2	2	2	2	2	2	2	4	2	3	2	3	2	3	65	2	4	4	4	3	4	4	3	4	4	3	3	4	2	4	2			
6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	66	3	3	3	3	3	3	3	3	3	3	3	3	3	4	2	4			
7	3	3	3	2	3	4	4	3	4	4	4	3	3	2	3	67	3	4	4	4	3	4	4	3	4	4	4	3	4	2	4	2			
8	2	4	2	3	2	4	4	2	3	4	3	3	4	3	4	68	4	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3			
9	2	2	2	2	2	2	2	2	2	2	4	2	3	2	3	69	2	4	4	4	2	4	4	2	4	4	4	4	3	2	3				
10	3	4	3	2	1	4	4	1	3	4	2	2	3	2	3	70	3	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3			
11	3	2	2	2	2	2	3	2	2	3	2	2	3	2	3	71	3	1	3	3	3	3	3	3	4	3	3	3	4	3	4	3			
12	3	2	2	2	2	2	3	2	2	3	2	2	3	2	3	72	2	2	2	2	2	2	2	2	2	3	2	3	2	3	2	3			
13	3	3	3	3	1	3	3	1	3	3	4	2	4	1	4	73	3	2	3	3	3	3	3	3	2	3	3	3	3	3	3	3			
14	3	2	2	2	2	2	4	2	2	4	2	2	3	2	3	74	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
15	3	2	2	2	2	2	2	2	2	2	2	2	3	2	3	75	3	3	3	3	3	3	3	3	3	3	3	3	3	4	3	4			
16	4	2	2	2	2	2	4	2	2	4	2	2	3	2	3	76	3	3	3	3	3	3	3	3	3	3	3	4	3	4	2	4			
17	3	3	3	3	3	3	4	3	3	4	3	3	3	1	3	77	4	2	4	4	2	4	4	2	2	4	3	4	3	3	3				
18	4	3	3	3	3	3	2	3	3	2	3	2	3	2	3	78	3	3	3	3	3	3	3	3	3	3	4	3	4	3	4	3			
19	3	2	2	2	2	2	3	2	2	3	2	1	2	2	2	79	4	1	4	4	4	4	4	4	4	4	4	4	3	3	3				
20	3	3	3	3	3	3	2	3	3	2	3	2	2	3	2	80	2	2	2	2	2	2	2	2	3	2	3	2	3	2	3				
21	2	2	3	2	2	2	2	2	2	2	3	1	4	2	3	81	3	3	3	3	2	3	3	2	3	3	3	3	4	3	4				
22	3	2	3	1	3	3	3	3	3	3	2	2	3	1	3	82	3	3	3	3	2	3	3	2	3	3	3	3	3	3	3				
23	3	3	3	1	3	3	3	3	3	3	3	3	4	2	4	83	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3				
24	3	3	2	2	3	3	3	3	3	3	3	3	4	2	3	84	4	2	4	4	2	4	3	2	4	3	4	4	4	2	4				
25	3	3	2	2	3	3	3	3	3	3	2	2	4	3	3	85	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	3			
26	3	3	2	3	3	4	4	3	4	4	3	4	3	4	3	86	2	4	4	4	1	4	4	1	4	4	2	2	3	1	3				
27	4	3	2	3	3	3	3	3	3	3	3	3	3	3	3	87	2	3	4	4	1	4	3	1	4	3	2	2	2	1	2				
28	3	4	2	3	2	4	4	2	4	4	4	2	4	3	3	88	2	2	2	2	2	4	2	2	4	2	2	4	2	4	2	4			
29	4	2	3	2	2	2	2	2	2	2	2	2	3	2	4	89	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
30	2	3	2	3	3	3	3	3	3	3	3	1	3	3	3	90	4	2	2	2	2	3	2	2	3	4	4	3	2	3					
31	3	4	4	2	4	4	4	4	4	3	4	2	4	3	4	91	2	3	3	4	3	4	3	4	3	4	4	4	3	3	3				
32	3	3	3	3	3	3	3	3	2	3	3	3	4	3	4	92	4	2	2	2	2	2	2	2	2	2	2	2	3	2	3				
33	2	1	2	2	2	2	2	2	3	2	2	2	3	2	3	93	2	3	3	3	3	3	3	3	3	3	3	3	4	3	4				
34	3	3	3	3	3	3	3	3	3	3	3	3	4	3	4	94	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
35	3	2	3	3	3	3	3	3	3	3	3	3	4	3	4	95	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3			
36	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	96	3	3	3	3	3	3	3	3	3	3	3	3	3	4	3	4			
37	2	2	2	2	2	2	2	4	2	2	2	3	2	3	3	97	4	3	4	3	3	3	3	4	3	3	3	3	3	3	2	3			
38	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	98	3	2	4	2	3	2	2	3	4	2	2	2	3	2	3				
39	4	3	4	2	4	4	4	4	4	4	4	2	4	4	4	99	2	2	2	2	2	2	2	2	2	2	2	2	4	2	3				
40	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	100	4	3	4	3	3	3	3	4	3	3	3	3	3	3	3				
41	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	101	3	3	3	4	3	3	2	4	4	3	2	3	4	3	3				
42	3	3	3	3	3	3	3	3	3	3	3	3	4	3	4	102	2	2	2	3	2	2	3	2	2	3	2	2	3	4	3				
43	3	2	3	3	3	3	3	3	3	3	3	3	4	3	4	103	3	3	3	3	2	3	3	4	2	3	1	3	3	3	2				
44	2	2	3	2	2	2	2	2	2	2	2	2	3	2	3	104	3	3	3	4	2	3	3	4	2	3	1	3	3	3	2	2			
45	2	2	3	2	2	2	2	2	2	2	2	2	3	2	3	105	3	3	3	2	2	3	2	4	2	3	2	3	4	3	4	3	1		
46	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	106	3	3	3	3	2	3	2	3	3	4	3	3	4	2	2				
47	2	2	3	2	2	2	2	2	2	2	2	2	4	2	4	107	4	4	4	3	2	2	2	4	3	2	4	3	2	2					
48	2	2	4	2	2	2	2	2	2	2	2	2	3	2	3	108	3	3	3	3	3	2	3	3	4	2	3	4	3	1					
49	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	109	4	4	4	3	2	4	2	4	4	3	2	4	3	2	2				
50	2	2	3	2	2	2	2	2	2	2	2	2	4	2	4	110	2	2	2	3	2	2	2	2	3	3	2	3	2	3	2				
51	2	3	3	3	3	3	2	3	2	2	3	3	3	4		111	3	3	3	3	2	2	2	2	3	3	4	3	4	2	2				
52	2	3	3	3	3	3	2	3	3	2	4	3	3	3	3	112	3	3	3	4	3	2	3	2	2	3	3	3	3	3	3				
53	4	3	3	3	3	3	3	3	3	3	2	3	4	3	4	113	3	3	3	3	3	3	2	4	3	2	3	3	3	3	3				
54	2	3	3	3	3	3	2	3	3	2	3	3	3	3	4	114	4	4	4	3	2	2	3	3	3	4	3	4	4	2	2				
55	2	3	3	3	3	3	2	3	3	2	2	3	3	3	4	115	2	2	2	4	3	2	3	4	3	2	2	2	3	3	3				
5																																			

[illegible]

Responden	Pernyataan (Ayam. lagi >< Definisi)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A
61	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓
62		✓		✓		✓		✓		✓		✓		✓	✓
63		✓		✓		✓		✓		✓		✓		✓	✓
64		✓		✓		✓		✓		✓		✓		✓	✓
65		✓		✓		✓		✓		✓		✓		✓	✓
66		✓		✓		✓		✓		✓		✓		✓	✓
67		✓		✓		✓		✓		✓		✓		✓	✓
68		✓		✓		✓		✓		✓		✓		✓	✓
69		✓		✓		✓		✓		✓		✓		✓	✓
70		✓		✓		✓		✓		✓		✓		✓	✓
71		✓		✓		✓		✓		✓		✓		✓	✓
72	✓		✓		✓		✓		✓		✓		✓		✓
73		✓		✓		✓		✓		✓		✓		✓	✓
74		✓		✓		✓		✓		✓		✓		✓	✓
75		✓		✓		✓		✓		✓		✓		✓	✓
76		✓		✓		✓		✓		✓		✓		✓	✓
77		✓		✓		✓		✓		✓		✓		✓	✓
78		✓		✓		✓		✓		✓		✓		✓	✓
79	✓		✓		✓		✓		✓		✓		✓		✓
80		✓		✓		✓		✓		✓		✓		✓	✓
81		✓		✓		✓		✓		✓		✓		✓	✓
82		✓		✓		✓		✓		✓		✓		✓	✓
83		✓		✓		✓		✓		✓		✓		✓	✓
84		✓		✓		✓		✓		✓		✓		✓	✓
85		✓		✓		✓		✓		✓		✓		✓	✓
86		✓		✓		✓		✓		✓		✓		✓	✓
87		✓		✓		✓		✓		✓		✓		✓	✓
88		✓		✓		✓		✓		✓		✓		✓	✓
89		✓		✓		✓		✓		✓		✓		✓	✓
90	✓		✓		✓		✓		✓		✓		✓		✓
91		✓		✓		✓		✓		✓		✓		✓	✓
92		✓		✓		✓		✓		✓		✓		✓	✓
93		✓		✓		✓		✓		✓		✓		✓	✓
94		✓		✓		✓		✓		✓		✓		✓	✓
95		✓		✓		✓		✓		✓		✓		✓	✓
96		✓		✓		✓		✓		✓		✓		✓	✓
97	✓		✓		✓		✓		✓		✓		✓		✓
98		✓		✓		✓		✓		✓		✓		✓	✓
99		✓		✓		✓		✓		✓		✓		✓	✓
100		✓		✓		✓		✓		✓		✓		✓	✓
101		✓		✓		✓		✓		✓		✓		✓	✓
102		✓		✓		✓		✓		✓		✓		✓	✓
103		✓		✓		✓		✓		✓		✓		✓	✓
104		✓		✓		✓		✓		✓		✓		✓	✓
105		✓		✓		✓		✓		✓		✓		1	✓
106	✓		✓		✓		✓		✓		✓		✓		✓
107		✓		✓		✓		✓		✓		✓		1	✓
108		✓		✓		✓		✓		✓		✓		✓	✓
109		✓		✓		✓		✓		✓		✓		✓	✓
110	✓		✓		✓		✓		✓		✓		✓		✓
111	✓		✓		✓		✓		✓		✓		✓		✓
112	✓		✓		✓		✓		✓		✓		✓		✓
113	✓		✓		✓		✓		✓		✓		✓		✓
114	✓		✓		✓		✓		✓		✓		✓		✓
115	✓		✓		✓		✓		✓		✓		✓		✓
116	✓		✓		✓		✓		✓		✓		✓		✓
117	✓		✓		✓		✓		✓		✓		✓		✓
118	✓		✓		✓		✓		✓		✓		✓		✓
119	✓		✓		✓		✓		✓		✓		✓		✓
120	✓		✓		✓		✓		✓		✓		✓		✓

Responden	Segmenasi Pekerjaan					Responden	Segmenasi Pekerjaan				
	Bo.ET	Perj. Militer	Karyawan	Wirausaha	Lainnya		Bo.ET	Perj. Militer	Karyawan	Wirausaha	Lainnya
1					✓	61	✓				
2	✓					62	✓				
3	✓					63			✓		
4			✓			64	✓				
5	✓					65		✓			
6	✓					66	✓				
7	✓					67	✓				
8					✓	68	✓				
9		✓				69	✓				
10		✓				70			✓		
11				✓		71	✓				
12	✓					72	✓				
13	✓					73				✓	
14	✓					74	✓				
15			✓			75	✓				
16	✓					76				✓	
17	✓					77	✓				
18				✓		78	✓				
19				✓		79	✓				
20				✓		80	✓				
21		✓				81	✓				
22			✓			82			✓		
23					✓	83	✓				
24					✓	84	✓				
25	✓					85				✓	
26	✓					86			✓		
27	✓					87	✓				
28	✓					88	✓				
29	✓					89	✓				
30				✓		90					✓
31			✓			91					✓
32		✓				92					✓
33			✓			93		✓			
34			✓			94	✓				
35	✓					95			✓		
36			✓			96	✓				
37		✓				97	✓				
38			✓			98	✓				
39		✓				99		✓			
40		✓				100		✓			
41				✓		101		✓			
42	✓					102			✓		
43			✓			103			✓		
44					✓	104				✓	
45				✓		105		✓			
46		✓				106					✓
47			✓			107		✓			
48			✓			108			✓		
49		✓				109			✓		
50	✓					110	✓				
51	✓					111	✓				
52		✓				112	✓				
53	✓					113	✓				
54	✓					114		✓			
55				✓		115	✓				
56	✓					116				✓	
57	✓					117	✓				
58	✓					118			✓		
59			✓			119	✓				
60				✓		120		✓			

Responden	Segmenasi Penghasilan				Responden	Segmenasi Penghasilan			
	< 1jt	1jt - 3jt	> 3jt - 5jt	> 5jt		< 1jt	1jt - 3jt	> 3jt - 5jt	> 5jt
1	✓				61	✓			
2			✓		62			✓	
3		✓			63			✓	
4			✓		64		✓		
5			✓		65		✓		
6			✓		66			✓	
7				✓	67	✓			
8			✓		68			✓	
9				✓	69			✓	
10				✓	70		✓		
11			✓		71			✓	
12		✓			72			✓	
13			✓		73		✓		
14	✓				74			✓	
15			✓		75	✓			
16	✓				76		✓		
17				✓	77			✓	
18				✓	78			✓	
19				✓	79	✓			
20		✓			80	✓			
21		✓			81			✓	
22			✓		82			✓	
23		✓			83				✓
24		✓			84			✓	
25	✓				85				✓
26	✓				86			✓	
27			✓		87				✓
28		✓			88				✓
29		✓			89				✓
30				✓	90				✓
31		✓			91				✓
32		✓			92			✓	
33		✓			93			✓	
34		✓			94			✓	
35			✓		95		✓		
36		✓			96		✓		
37			✓		97			✓	
38			✓		98		✓		
39		✓			99			✓	
40		✓			100		✓		
41		✓			101		✓		
42		✓			102		✓		
43		✓			103		✓		
44		✓			104		✓		
45				✓	105		✓		
46		✓			106		✓		
47		✓			107			✓	
48		✓			108		✓		
49			✓		109		✓		
50			✓		110		✓		
51			✓		111			✓	
52		✓			112			✓	
53	✓				113			✓	
54	✓				114			✓	
55		✓			115			✓	
56			✓		116		✓		
57		✓			117		✓		
58	✓				118		✓		
59	✓				119			✓	
60				✓	120		✓		

Responden	Segmentasi Tempat Tinggal						Responden	Segmentasi Tempat Tinggal					
	M.Barat	M.Pusat	M.Selatan	M.Timur	M.Utara	Lainnya		M.Barat	M.Pusat	M.Selatan	M.Timur	M.Utara	Lainnya
1	✓						61				✓		
2	✓						62		✓				
3		✓					63				✓		
4		✓					64		✓				
5	✓						65	✓					
6	✓						66				✓		
7		✓					67		✓				
8		✓					68				✓		
9		✓					69				✓		
10				✓			70		✓				
11	✓						71		✓				
12	✓						72				✓		
13				✓			73		✓				
14	✓						74				✓		
15		✓					75				✓		
16	✓						76		✓				
17	✓						77				✓		
18		✓					78	✓					
19		✓					79				✓		
20		✓					80				✓		
21				✓			81		✓				
22	✓						82	✓					
23	✓						83		✓				
24	✓						84				✓		
25				✓			85		✓				
26		✓					86		✓				
27				✓			87		✓				
28	✓						88		✓				
29		✓					89		✓				
30		✓					90				✓		
31	✓						91		✓				
32				✓			92				✓		
33	✓						93				✓		
34		✓					94	✓					
35				✓			95				✓		
36				✓			96		✓				
37		✓					97	✓					
38		✓					98	✓					
39	✓						99				✓		
40				✓			100				✓		
41		✓					101		✓				
42	✓						102				✓		
43	✓						103		✓				
44		✓					104				✓		
45		✓					105				✓		
46				✓			106				✓		
47		✓					107	✓					
48		✓					108				✓		
49		✓					109	✓					
50	✓						110		✓				
51				✓			111	✓					
52		✓					112				✓		
53				✓			113				✓		
54	✓						114	✓					
55		✓					115		✓				
56				✓			116				✓		
57		✓					117				✓		
58				✓			118				✓		
59	✓						119	✓					
60		✓					120				✓		

Responden	Segmentasi Lokasi Membeli Beras						Responden	Segmentasi Lokasi Membeli Beras					
	M.Barat	M.Pusat	M.Selatan	M.Timur	M.Utara	Lainnya		M.Barat	M.Pusat	M.Selatan	M.Timur	M.Utara	Lainnya
1		✓					61				✓		
2	✓						62		✓				
3		✓					63				✓		
4		✓					64		✓				
5	✓						65	✓					
6	✓						66				✓		
7		✓					67		✓				
8		✓					68				✓		
9		✓					69				✓		
10				✓			70		✓				
11	✓						71		✓				
12	✓						72				✓		
13				✓			73	✓					
14	✓						74				✓		
15		✓					75				✓		
16	✓						76		✓				
17	✓						77				✓		
18		✓					78	✓					
19		✓					79				✓		
20		✓					80				✓		
21				✓			81		✓				
22		✓					82	✓					
23		✓					83		✓				
24		✓					84				✓		
25				✓			85		✓				
26		✓					86		✓				
27				✓			87		✓				
28	✓						88		✓				
29		✓					89		✓				
30		✓					90		✓				
31	✓						91		✓				
32				✓			92				✓		
33	✓						93				✓		
34		✓					94	✓					
35				✓			95				✓		
36				✓			96		✓				
37		✓					97		✓				
38		✓					98	✓					
39	✓						99				✓		
40				✓			100				✓		
41		✓					101		✓				
42	✓						102				✓		
43	✓						103		✓				
44		✓					104				✓		
45		✓					105				✓		
46				✓			106				✓		
47		✓					107	✓					
48		✓					108				✓		
49		✓					109	✓					
50	✓						110		✓				
51				✓			111	✓					
52		✓					112				✓		
53				✓			113				✓		
54	✓						114	✓					
55		✓					115		✓				
56				✓			116				✓		
57		✓					117				✓		
58				✓			118				✓		
59	✓						119	✓					
60		✓					120				✓		

Responden	Segmentasi Tempat Membeli Beras					Responden	Segmentasi Tempat Membeli Beras				
	P.Grosir	Warung	Minimarket	Supermarket	Lainnya		P.Grosir	Warung	Minimarket	Supermarket	Lainnya
1	✓					61		✓			
2		✓				62			✓		
3				✓		63			✓		
4				✓		64				✓	
5	✓					65	✓				
6				✓		66				✓	
7				✓		67		✓			
8			✓			68	✓				
9	✓					69		✓			
10	✓					70				✓	
11		✓				71	✓				
12	✓					72	✓				
13	✓					73	✓				
14		✓				74			✓		
15				✓		75		✓			
16		✓				76			✓		
17	✓					77	✓				
18				✓		78				✓	
19	✓					79		✓			
20	✓					80		✓			
21	✓					81	✓				
22				✓		82			✓		
23				✓		83	✓				
24				✓		84			✓		
25	✓					85	✓				
26				✓		86		✓			
27			✓			87				✓	
28				✓		88				✓	
29				✓		89				✓	
30				✓		90			✓		
31			✓			91				✓	
32			✓			92		✓			
33			✓			93			✓		
34				✓		94		✓			
35			✓			95			✓		
36				✓		96			✓		
37			✓			97		✓			
38			✓			98				✓	
39			✓			99				✓	
40			✓			100			✓		
41				✓		101			✓		
42		✓				102			✓		
43				✓		103				✓	
44				✓		104			✓		
45				✓		105			✓		
46		✓				106			✓		
47		✓				107		✓			
48			✓			108			✓		
49	✓					109			✓		
50		✓				110			✓		
51				✓		111			✓		
52	✓					112			✓		
53		✓				113				✓	
54		✓				114			✓		
55				✓		115			✓		
56	✓					116			✓		
57				✓		117				✓	
58		✓				118			✓		
59		✓				119		✓			
60				✓		120			✓		

Responden	Segmentasi Cara Mengetahui AJ					Responden	Segmentasi Cara Mengetahui AJ				
	P.Grosir	Sendiri	Teman	Poster	Lainnya		P.Grosir	Sendiri	Teman	Poster	Lainnya
1		✓				61		✓			
2		✓				62	✓	✓			
3		✓				63	✓				
4			✓			64				✓	
5		✓				65	✓				
6	✓					66		✓			
7		✓				67		✓			
8	✓					68	✓				
9		✓				69			✓		
10		✓				70			✓		
11		✓				71	✓				
12			✓			72		✓			
13		✓				73	✓				
14		✓				74		✓			
15		✓				75		✓			
16		✓				76			✓		
17	✓					77		✓			
18		✓				78	✓				
19		✓				79		✓			
20		✓				80		✓			
21	✓					81		✓			
22		✓				82		✓			
23			✓			83		✓			
24			✓			84		✓			
25	✓					85		✓			
26		✓				86		✓			
27		✓				87		✓			
28	✓					88		✓			
29		✓				89		✓			
30		✓				90			✓		
31		✓				91		✓			
32		✓				92			✓		
33		✓				93		✓			
34		✓				94		✓			
35		✓				95			✓		
36	✓					96			✓		
37		✓				97		✓			
38		✓				98		✓			
39		✓				99			✓		
40		✓				100		✓			
41		✓				101		✓			
42		✓				102			✓		
43			✓			103			✓		
44			✓			104			✓		
45			✓			105		✓			
46			✓			106		✓			
47			✓			107		✓			
48	✓					108		✓			
49	✓					109			✓		
50	✓					110			✓		
51		✓				111			✓		
52	✓					112			✓		
53		✓				113		✓			
54			✓			114		✓			
55				✓		115		✓			
56	✓					116			✓		
57				✓		117			✓		
58	✓					118			✓		
59		✓				119		✓			
60	✓					120		✓			

Responden	Segmentasi Banyak Pembelian Beras				Responden	Segmentasi Banyak Pembelian Beras			
	1 - 2	3 - 5	6 - 8	Lainnya		1 - 2	3 - 5	6 - 8	Lainnya
1	✓				61	✓			
2		✓			62	✓			
3		✓			63	✓			
4	✓				64		✓		
5		✓			65			✓	
6	✓				66		✓		
7	✓				67		✓		
8	✓				68		✓		
9			✓		69		✓		
10				✓	70		✓		
11	✓				71		✓		
12	✓				72		✓		
13	✓				73		✓		
14	✓				74		✓		
15	✓				75	✓			
16		✓			76		✓		
17		✓			77	✓			
18	✓				78		✓		
19	✓				79		✓		
20	✓				80		✓		
21			✓		81		✓		
22	✓				82		✓		
23	✓				83		✓		
24	✓				84	✓			
25	✓				85		✓		
26	✓				86	✓			
27	✓				87		✓		
28		✓			88	✓			
29		✓			89		✓		
30		✓			90		✓		
31		✓			91		✓		
32		✓			92	✓			
33		✓			93	✓			
34		✓			94	✓			
35		✓			95		✓		
36		✓			96		✓		
37		✓			97	✓			
38		✓			98		✓		
39		✓			99		✓		
40		✓			100			✓	
41			✓		101			✓	
42	✓				102		✓		
43		✓			103		✓		
44		✓			104		✓		
45		✓			105			✓	
46		✓			106		✓		
47	✓				107		✓		
48	✓				108	✓			
49		✓			109		✓		
50	✓				110		✓		
51	✓				111		✓		
52			✓		112		✓		
53	✓				113		✓		
54	✓				114		✓		
55	✓				115		✓		
56	✓				116		✓		
57	✓				117		✓		
58	✓				118		✓		
59	✓				119	✓			
60		✓			120		✓		

Responden	Segmentasi Harga Beras yang Dibeli				Responden	Segmentasi Harga Beras yang Dibeli			
	< 7000	> 7000 - 8000	> 8000 - 9000	Lainnya		< 7000	> 7000 - 8000	> 8000 - 9000	Lainnya
1			✓		61			✓	
2			✓		62			✓	
3			✓		63			✓	
4		✓			64			✓	
5			✓		65			✓	
6			✓		66			✓	
7			✓		67			✓	
8		✓			68			✓	
9			✓		69			✓	
10			✓		70			✓	
11			✓		71			✓	
12			✓		72			✓	
13			✓		73			✓	
14			✓		74			✓	
15			✓		75			✓	
16			✓		76			✓	
17			✓		77			✓	
18			✓		78			✓	
19			✓		79			✓	
20			✓		80			✓	
21			✓		81			✓	
22			✓		82			✓	
23			✓		83			✓	
24			✓		84			✓	
25			✓		85				✓
26			✓		86			✓	
27			✓		87			✓	
28			✓		88			✓	
29			✓		89			✓	
30			✓		90			✓	
31			✓		91				✓
32			✓		92			✓	
33			✓		93			✓	
34			✓		94			✓	
35			✓		95			✓	
36			✓		96			✓	
37			✓		97		✓		
38			✓		98			✓	
39			✓		99			✓	
40			✓		100			✓	
41			✓		101			✓	
42			✓		102			✓	
43			✓		103			✓	
44			✓		104			✓	
45			✓		105			✓	
46			✓		106			✓	
47			✓		107			✓	
48			✓		108			✓	
49			✓		109			✓	
50			✓		110			✓	
51			✓		111			✓	
52			✓		112			✓	
53			✓		113			✓	
54			✓		114			✓	
55			✓		115			✓	
56			✓		116			✓	
57			✓		117			✓	
58			✓		118			✓	
59			✓		119			✓	
60			✓		120			✓	

Pengujian I																									
n	Atribut																							R _i	R _i ²
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	19	361
2	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0	0	1	0	0	0	16	256
3	0	0	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	0	0	1	0	0	1	13	169
4	1	1	1	1	1	1	1	0	0	1	0	1	1	1	0	1	1	0	0	1	0	0	1	15	225
5	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	0	0	1	0	0	1	16	256
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	20	400
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	1	19	361
8	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	1	0	0	1	16	256
9	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1	0	0	1	1	0	1	16	256
10	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	484
11	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	0	0	1	0	1	1	17	289
12	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	18	324
13	1	1	1	0	0	1	0	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	17	289
14	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1	19	361
15	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	0	0	0	0	1	0	0	1	14	196
16	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	1	0	1	1	18	324
17	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	1	1	18	324
18	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	1	0	1	1	18	324
19	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	0	1	18	324
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	23	529
21	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	0	0	16	256
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	20	400
23	1	1	0	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	0	0	1	0	15	225
24	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0	1	0	0	1	17	289
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0	1	18	324
26	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0	0	0	1	0	0	1	16	256
27	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	17	289
28	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	1	0	0	1	17	289
29	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	1	1	18	324
30	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	0	1	0	1	1	18	324
C _i	29	29	28	28	27	28	27	19	24	21	20	27	21	27	22	29	24	12	6	26	11	12	27	524	9284
C _i ²	841	841	784	784	729	784	729	361	576	441	400	729	441	729	484	841	576	144	36	676	121	144	729	12920	

1. Pengujian I

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 23$$

$$\sum_{i=1}^{30} R_i = 524 \quad \sum_{i=1}^{23} C_i = 524$$

$$\sum_{i=1}^{30} R_i^2 = 9284 \quad \sum_{i=1}^{23} C_i^2 = 12920$$

$$Q = \frac{[k(k-1) \sum_i C_i^2] - [(k-1)(\sum_i C_i)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[23(23-1)12920] - [(23-1)(524)^2]}{23(524) - 9284}$$

$$= 179,497$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 23 - 1 = 22$$

$$Q(\alpha; v) = Q(0,05; 22) = 33,924$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Tolak } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

➔ Buang Atribut 19

Pengujian II																									
n	Atribut																							R _i	R _i ²
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		1	0	0	1	19	361
2	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0		1	0	0	0	16	256
3	0	0	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	0		1	0	0	1	13	169
4	1	1	1	1	1	1	1	0	0	1	0	1	1	1	0	1	1	0		1	0	0	1	15	225
5	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	0		1	0	0	1	16	256
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	0	0	1	20	400
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1		0	0	0	1	18	324
8	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0		1	0	0	1	16	256
9	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1	0		1	1	0	1	16	256
10	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1		1	1	1	1	21	441
11	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	0		1	0	1	1	17	289
12	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1		0	1	0	1	18	324
13	1	1	1	0	0	1	0	1	0	0	1	1	0	1	1	1	1	1		1	1	1	1	16	256
14	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1		1	0	1	1	19	361
15	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	0	0	0		1	0	0	1	14	196
16	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0		1	0	1	1	18	324
17	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0		1	1	1	1	18	324
18	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1		1	0	1	1	18	324
19	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1		1	1	0	1	18	324
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	22	484
21	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0		1	1	0	0	16	256
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		1	1	0	1	20	400
23	1	1	0	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1		0	0	1	0	15	225
24	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0		1	0	0	1	17	289
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0		0	0	0	1	17	289
26	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0	0		1	0	0	1	16	256
27	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1		1	1	1	1	16	256
28	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0		1	0	0	1	17	289
29	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0		1	1	1	1	18	324
30	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1		1	0	1	1	18	324
C _i	29	29	28	28	27	28	27	19	24	21	20	27	21	27	22	29	24	12	0	26	11	12	27	518	9058
C _i ²	841	841	784	784	729	784	729	361	576	441	400	729	441	729	484	841	576	144	0	676	121	144	729	12884	

2. Pengujian II

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 22$$

$$\sum_{i=1}^{30} R_i = 518 \quad \sum_{i=1}^{23} C_i = 518$$

$$\sum_{i=1}^{30} R_i^2 = 9058 \quad \sum_{i=1}^{23} C_i^2 = 12884$$

$$Q = \frac{[k(k-1) \sum_i C_i^2] - [(k-1)(\sum_i C_i)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[22(22-1)12884] - [(22-1)(518)^2]}{22(518) - 9058}$$

$$= 135,844$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 22 - 1 = 21$$

$$Q(\alpha; v) = Q(0,05; 21) = 32,671$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Tolak } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

➔ Buang Atribut 21

Pengujian III																									
n	Atribut																							R _i	R _i ²
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		1		0	1	19	361
2	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0		1		0	0	16	256
3	0	0	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	0		1		0	1	13	169
4	1	1	1	1	1	1	1	0	0	1	0	1	1	1	0	1	1	0		1		0	1	15	225
5	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	0		1		0	1	16	256
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		0	1	20	400
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1		0		0	1	18	324
8	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0		1		0	1	16	256
9	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1	0		1		0	1	15	225
10	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1		1		1	1	20	400
11	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	0		1		1	1	17	289
12	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1		0		0	1	17	289
13	1	1	1	0	0	1	0	1	0	0	1	1	0	1	1	1	1	1		1		1	1	15	225
14	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1		1		1	1	19	361
15	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	0	0	0		1		0	1	14	196
16	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0		1		1	1	18	324
17	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0		1		1	1	17	289
18	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1		1		1	1	18	324
19	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1		1		0	1	17	289
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1	21	441
21	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0		1		0	0	15	225
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		1		0	1	19	361
23	1	1	0	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1		0		1	0	15	225
24	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0		1		0	1	17	289
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0		0		0	1	17	289
26	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0	0		1		0	1	16	256
27	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1		1		1	1	15	225
28	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0		1		0	1	17	289
29	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0		1		1	1	17	289
30	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1		1		1	1	18	324
C _i	29	29	28	28	27	28	27	19	24	21	20	27	21	27	22	29	24	12	0	26	0	12	27	507	8671
C _i ²	841	841	784	784	729	784	729	361	576	441	400	729	441	729	484	841	576	144	0	676	0	144	729	12763	

3. Pengujian III

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 21$$

$$\sum_{i=1}^{30} R_i = 507 \quad \sum_{i=1}^{23} C_i = 507$$

$$\sum_{i=1}^{30} R_i^2 = 8671 \quad \sum_{i=1}^{23} C_i^2 = 12763$$

$$Q = \frac{[k(k-1) \sum_i C_i^2] - [(k-1)(\sum_i C_i)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[21(21-1)12763] - [(21-1)(507)^2]}{23(507) - 8671}$$

$$= 111,073$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 21 - 1 = 20$$

$$Q(\alpha; v) = Q(0,05; 20) = 31,410$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Tolak } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

➔ Buang Atribut 18

Pengujian IV																									
No	Atribut																							R _i	R _i ²
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		0	1	19	361
2	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1			1		0	0	16	256
3	0	0	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1			1		0	1	13	169
4	1	1	1	1	1	1	1	0	0	1	0	1	1	1	0	1	1			1		0	1	15	225
5	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1			1		0	1	16	256
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		0	1	19	361
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1			0		0	1	17	289
8	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1			1		0	1	16	256
9	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1			1		0	1	15	225
10	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1			1		1	1	19	361
11	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0			1		1	1	17	289
12	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1			0		0	1	16	256
13	1	1	1	0	0	1	0	1	0	0	1	1	0	1	1	1	1			1		1	1	14	196
14	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1			1		1	1	18	324
15	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	0	0			1		0	1	14	196
16	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1			1		1	1	18	324
17	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0			1		1	1	17	289
18	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0			1		1	1	17	289
19	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1			1		0	1	16	256
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		1	1	20	400
21	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1			1		0	0	15	225
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		0	1	19	361
23	1	1	0	1	0	1	1	1	0	1	1	1	1	0	1	1	1			0		1	0	14	196
24	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1			1		0	1	17	289
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1			0		0	1	17	289
26	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0			1		0	1	16	256
27	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1			1		1	1	14	196
28	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1			1		0	1	17	289
29	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0			1		1	1	17	289
30	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1			1		1	1	17	289
C_i	29	29	28	28	27	28	27	19	24	21	20	27	21	27	22	29	24	0	0	26	0	12	27	495	8257
C_i²	841	841	784	784	729	784	729	361	576	441	400	729	441	729	484	841	576	0	0	676	0	144	729	12619	

4. Pengujian IV

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 20$$

$$\sum_{i=1}^{30} R_i = 495 \quad \sum_{i=1}^{23} C_i = 495$$

$$\sum_{i=1}^{30} R_i^2 = 8257 \quad \sum_{i=1}^{23} C_i^2 = 12619$$

$$Q = \frac{[k(k-1) \sum_i C_i^2] - [(k-1)(\sum_i C_i)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[20(20-1)12619] - [(20-1)(495)^2]}{20(495) - 8257}$$

$$= 85,055$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 20 - 1 = 19$$

$$Q(\alpha; v) = Q(0,05; 19) = 30,144$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Tolak } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

➔ Buang Atribut 22

Pengujian V																									
n	Atribut																							R _i	R _i ²
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1			1	19	361
2	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1			1			0	16	256
3	0	0	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1			1			1	13	169
4	1	1	1	1	1	1	1	0	0	1	0	1	1	1	0	1	1			1			1	15	225
5	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1			1			1	16	256
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1			1	19	361
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1			0			1	17	289
8	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1			1			1	16	256
9	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	1			1			1	15	225
10	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1			1			1	18	324
11	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0			1			1	16	256
12	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1			0			1	16	256
13	1	1	1	0	0	1	0	1	0	0	1	1	0	1	1	1	1			1			1	13	169
14	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1			1			1	17	289
15	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	0	0			1			1	14	196
16	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1			1			1	17	289
17	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0			1			1	16	256
18	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	0			1			1	16	256
19	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1			1			1	16	256
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1			1	19	361
21	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1			1			0	15	225
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1			1	19	361
23	1	1	0	1	0	1	1	1	0	1	1	1	1	0	1	1	1			0			0	13	169
24	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1			1			1	17	289
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1			0			1	17	289
26	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0			1			1	16	256
27	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1			1			1	13	169
28	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1			1			1	17	289
29	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0			1			1	16	256
30	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1			1			1	16	256
C _i	29	29	28	28	27	28	27	19	24	21	20	27	21	27	22	29	24	0	0	26	0	0	27	483	7865
C _i ²	841	841	784	784	729	784	729	361	576	441	400	729	441	729	484	841	576	0	0	676	0	0	729	12475	

5. Pengujian V

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 19$$

$$\sum_{i=1}^{30} R_i = 483 \quad \sum_{i=1}^{23} C_i = 483$$

$$\sum_{i=1}^{30} R_i^2 = 7865 \quad \sum_{i=1}^{23} C_i^2 = 12475$$

$$Q = \frac{[k(k-1) \sum_i C_i^2] - [(k-1)(\sum_i C_i)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[19(19-1)12475] - [(19-1)(483)^2]}{19(483) - 7865}$$

$$= 51,256$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 19 - 1 = 18$$

$$Q(\alpha; v) = Q(0,05; 18) = 28,869$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Tolak } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

➔ Buang Atribut 8

Pengujian VI																										
n	Atribut																							R _i	R _i ²	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1			1			1	18	324	
2	1	1	1	1	1	1	1		1	1	0	1	1	1	1	1	1			1			0	16	256	
3	0	0	1	1	1	1	1		1	0	0	1	1	0	0	1	1			1			1	12	144	
4	1	1	1	1	1	1	1		0	1	0	1	1	1	0	1	1			1			1	15	225	
5	1	1	1	1	1	1	1		1	1	1	1	0	1	0	1	1			1			1	16	256	
6	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1			1			1	18	324	
7	1	1	1	1	1	1	1		1	1	1	1	1	1	0	1	1			0			1	16	256	
8	1	1	1	1	1	1	1		1	1	0	0	0	1	1	1	1			1			1	15	225	
9	1	1	1	1	1	1	1		1	0	0	1	0	1	1	1	1			1			1	15	225	
10	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1			1			1	18	324	
11	1	1	1	1	1	1	1		1	0	1	1	0	1	1	1	0			1			1	15	225	
12	1	1	1	1	1	1	0		1	1	1	1	1	1	1	1	1			0			1	16	256	
13	1	1	1	0	0	1	0		0	0	1	1	0	1	1	1	1			1			1	12	144	
14	1	1	1	1	1	1	1		0	1	1	1	1	1	1	1	1			1			1	17	289	
15	1	1	1	1	1	1	1		1	0	1	1	0	1	1	0	0			1			1	14	196	
16	1	1	1	1	1	1	1		1	1	1	1	0	1	0	1	1			1			1	16	256	
17	1	1	1	1	1	1	1		1	0	0	1	1	1	1	1	0			1			1	15	225	
18	1	1	1	0	1	1	1		1	1	1	1	1	1	0	1	0			1			1	15	225	
19	1	1	1	1	1	1	1		1	1	0	0	0	1	1	1	1			1			1	15	225	
20	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1			1			1	18	324	
21	1	1	0	1	1	1	1		1	1	0	0	1	1	1	1	1			1			0	14	196	
22	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1			1			1	18	324	
23	1	1	0	1	0	1	1		0	1	1	1	1	0	1	1	1			0			0	12	144	
24	1	1	1	1	1	1	1		1	0	1	1	1	1	1	1	1			1			1	17	289	
25	1	1	1	1	1	1	1		1	1	1	1	1	1	0	1	1			0			1	16	256	
26	1	1	1	1	1	1	1		1	1	0	1	0	1	1	1	0			1			1	15	225	
27	1	1	1	1	0	0	0		0	0	1	1	1	1	1	1	1			1			1	13	169	
28	1	1	1	1	1	1	1		0	1	1	1	1	1	1	1	1			1			1	17	289	
29	1	1	1	1	1	1	1		1	0	0	1	1	1	1	1	0			1			1	15	225	
30	1	1	1	1	1	0	1		1	1	1	1	1	0	0	1	1			1			1	15	225	
C _i	29	29	28	28	27	28	27	0	24	21	20	27	21	27	22	29	24	0	0	26	0	0	27	464	7266	
C _i ²	841	841	784	784	729	784	729	0	576	441	400	729	441	729	484	841	576	0	0	676	0	0	729	12114		

6. Pengujian VI

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 18$$

$$\sum_{i=1}^{30} R_i = 464 \quad \sum_{i=1}^{23} C_i = 464$$

$$\sum_{i=1}^{30} R_i^2 = 7266 \quad \sum_{i=1}^{23} C_i^2 = 12114$$

$$Q = \frac{[k(k-1) \sum_i C_i^2] - [(k-1)(\sum_i C_i)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[18(18-1)12114] - [(18-1)(464)^2]}{18(464) - 7266}$$

$$= 43,142$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 18 - 1 = 17$$

$$Q(\alpha; v) = Q(0,05; 17) = 27,587$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Tolak } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

➔ Buang Atribut 11

Pengujian VII																									
n	Atribut																							R _i	R _i ²
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1			1			1	17	289
2	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1			1			0	16	256
3	0	0	1	1	1	1	1		1	0		1	1	0	0	1	1			1			1	12	144
4	1	1	1	1	1	1	1		0	1		1	1	1	0	1	1			1			1	15	225
5	1	1	1	1	1	1	1		1	1		1	0	1	0	1	1			1			1	15	225
6	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1			1			1	17	289
7	1	1	1	1	1	1	1		1	1		1	1	1	0	1	1			0			1	15	225
8	1	1	1	1	1	1	1		1	1		0	0	1	1	1	1			1			1	15	225
9	1	1	1	1	1	1	1		1	0		1	0	1	1	1	1			1			1	15	225
10	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1			1			1	17	289
11	1	1	1	1	1	1	1		1	0		1	0	1	1	1	0			1			1	14	196
12	1	1	1	1	1	1	0		1	1		1	1	1	1	1	1			0			1	15	225
13	1	1	1	0	0	1	0		0	0		1	0	1	1	1	1			1			1	11	121
14	1	1	1	1	1	1	1		0	1		1	1	1	1	1	1			1			1	16	256
15	1	1	1	1	1	1	1		1	0		1	0	1	1	0	0			1			1	13	169
16	1	1	1	1	1	1	1		1	1		1	0	1	0	1	1			1			1	15	225
17	1	1	1	1	1	1	1		1	0		1	1	1	1	1	0			1			1	15	225
18	1	1	1	0	1	1	1		1	1		1	1	1	0	1	0			1			1	14	196
19	1	1	1	1	1	1	1		1	1		0	0	1	1	1	1			1			1	15	225
20	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1			1			1	17	289
21	1	1	0	1	1	1	1		1	1		0	1	1	1	1	1			1			0	14	196
22	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1			1			1	17	289
23	1	1	0	1	0	1	1		0	1		1	1	0	1	1	1			0			0	11	121
24	1	1	1	1	1	1	1		1	0		1	1	1	1	1	1			1			1	16	256
25	1	1	1	1	1	1	1		1	1		1	1	1	0	1	1			0			1	15	225
26	1	1	1	1	1	1	1		1	1		1	0	1	1	1	0			1			1	15	225
27	1	1	1	1	0	0	0		0	0		1	1	1	1	1	1			1			1	12	144
28	1	1	1	1	1	1	1		0	1		1	1	1	1	1	1			1			1	16	256
29	1	1	1	1	1	1	1		1	0		1	1	1	1	1	0			1			1	15	225
30	1	1	1	1	1	0	1		1	1		1	1	0	0	1	1			1			1	14	196
C _i	29	29	28	28	27	28	27	0	24	21	0	27	21	27	22	29	24	0	0	26	0	0	27	444	6652
C _i ²	841	841	784	784	729	784	729	0	576	441	0	729	441	729	484	841	576	0	0	676	0	0	729	11714	

7. Pengujian VII

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 17$$

$$\sum_{i=1}^{30} R_i = 444 \quad \sum_{i=1}^{23} C_i = 444$$

$$\sum_{i=1}^{30} R_i^2 = 6652 \quad \sum_{i=1}^{23} C_i^2 = 11714$$

$$Q = \frac{[k(k-1) \sum_i C_i^2] - [(k-1)(\sum_i C_i)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[17(17-1)11764] - [(17-1)(444)^2]}{17(444) - 6652}$$

$$= 35,75$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 17 - 1 = 16$$

$$Q(\alpha; v) = Q(0,05; 16) = 26,296$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Tolak } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

➔ Buang Atribut 13

Pengujian VIII																									
n	Atribut																							R _i	R _i ²
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1	1	1	1	1	1	1		1	1		1		1	1	1	1			1			1	16	256
2	1	1	1	1	1	1	1		1	1		1		1	1	1	1			1			0	15	225
3	0	0	1	1	1	1	1		1	0		1		0	0	1	1			1			1	11	121
4	1	1	1	1	1	1	1		0	1		1		1	0	1	1			1			1	14	196
5	1	1	1	1	1	1	1		1	1		1		1	0	1	1			1			1	15	225
6	1	1	1	1	1	1	1		1	1		1		1	1	1	1			1			1	16	256
7	1	1	1	1	1	1	1		1	1		1		1	0	1	1			0			1	14	196
8	1	1	1	1	1	1	1		1	1		0		1	1	1	1			1			1	15	225
9	1	1	1	1	1	1	1		1	0		1		1	1	1	1			1			1	15	225
10	1	1	1	1	1	1	1		1	1		1		1	1	1	1			1			1	16	256
11	1	1	1	1	1	1	1		1	0		1		1	1	1	0			1			1	14	196
12	1	1	1	1	1	1	0		1	1		1		1	1	1	1			0			1	14	196
13	1	1	1	0	0	1	0		0	0		1		1	1	1	1			1			1	11	121
14	1	1	1	1	1	1	1		0	1		1		1	1	1	1			1			1	15	225
15	1	1	1	1	1	1	1		1	0		1		1	1	0	0			1			1	13	169
16	1	1	1	1	1	1	1		1	1		1		1	0	1	1			1			1	15	225
17	1	1	1	1	1	1	1		1	0		1		1	1	1	0			1			1	14	196
18	1	1	1	0	1	1	1		1	1		1		1	0	1	0			1			1	13	169
19	1	1	1	1	1	1	1		1	1		0		1	1	1	1			1			1	15	225
20	1	1	1	1	1	1	1		1	1		1		1	1	1	1			1			1	16	256
21	1	1	0	1	1	1	1		1	1		0		1	1	1	1			1			0	13	169
22	1	1	1	1	1	1	1		1	1		1		1	1	1	1			1			1	16	256
23	1	1	0	1	0	1	1		0	1		1		0	1	1	1			0			0	10	100
24	1	1	1	1	1	1	1		1	0		1		1	1	1	1			1			1	15	225
25	1	1	1	1	1	1	1		1	1		1		1	0	1	1			0			1	14	196
26	1	1	1	1	1	1	1		1	1		1		1	1	1	0			1			1	15	225
27	1	1	1	1	0	0	0		0	0		1		1	1	1	1			1			1	11	121
28	1	1	1	1	1	1	1		0	1		1		1	1	1	1			1			1	15	225
29	1	1	1	1	1	1	1		1	0		1		1	1	1	0			1			1	14	196
30	1	1	1	1	1	0	1		1	1		1		0	0	1	1			1			1	13	169
C _i	29	29	28	28	27	28	27	0	24	21	0	27	0	27	22	29	24	0	0	26	0	0	27	423	6041
C _i ²	841	841	784	784	729	784	729	0	576	441	0	729	0	729	484	841	576	0	0	676	0	0	729	11273	

8. Pengujian VIII

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 16$$

$$\sum_{i=1}^{30} R_i = 423 \quad \sum_{i=1}^{23} C_i = 423$$

$$\sum_{i=1}^{30} R_i^2 = 6071 \quad \sum_{i=1}^{23} C_i^2 = 11273$$

$$Q = \frac{[k(k-1) \sum_i C_i^2] - [(k-1)(\sum_i C_i)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[16(16-1)11273] - [(16-1)(423)^2]}{16(423) - 6041}$$

$$= 29,691$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 16 - 1 = 15$$

$$Q(\alpha; v) = Q(0,05; 15) = 24,996$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Tolak } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

➔ Buang Atribut 10

Pengujian IX																									
n	Atribut																							R _i	R _i ²
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	1	1	1	1	1	1	1		1			1		1	1	1	1			1			1	15	225
2	1	1	1	1	1	1	1		1			1		1	1	1	1			1			0	14	196
3	0	0	1	1	1	1	1		1			1		0	0	1	1			1			1	11	121
4	1	1	1	1	1	1	1		0			1		1	0	1	1			1			1	13	169
5	1	1	1	1	1	1	1		1			1		1	0	1	1			1			1	14	196
6	1	1	1	1	1	1	1		1			1		1	1	1	1			1			1	15	225
7	1	1	1	1	1	1	1		1			1		1	0	1	1			0			1	13	169
8	1	1	1	1	1	1	1		1			0		1	1	1	1			1			1	14	196
9	1	1	1	1	1	1	1		1			1		1	1	1	1			1			1	15	225
10	1	1	1	1	1	1	1		1			1		1	1	1	1			1			1	15	225
11	1	1	1	1	1	1	1		1			1		1	1	1	0			1			1	14	196
12	1	1	1	1	1	1	1	0		1		1		1	1	1	1			0			1	13	169
13	1	1	1	0	0	1	0		0			1		1	1	1	1			1			1	11	121
14	1	1	1	1	1	1	1		0			1		1	1	1	1			1			1	14	196
15	1	1	1	1	1	1	1		1			1		1	1	0	0			1			1	13	169
16	1	1	1	1	1	1	1		1			1		1	0	1	1			1			1	14	196
17	1	1	1	1	1	1	1		1			1		1	1	1	0			1			1	14	196
18	1	1	1	0	1	1	1		1			1		1	0	1	0			1			1	12	144
19	1	1	1	1	1	1	1		1			0		1	1	1	1			1			1	14	196
20	1	1	1	1	1	1	1		1			1		1	1	1	1			1			1	15	225
21	1	1	0	1	1	1	1		1			0		1	1	1	1			1			0	12	144
22	1	1	1	1	1	1	1		1			1		1	1	1	1			1			1	15	225
23	1	1	0	1	0	1	1		0			1		0	1	1	1			0			0	9	81
24	1	1	1	1	1	1	1		1			1		1	1	1	1			1			1	15	225
25	1	1	1	1	1	1	1		1			1		1	0	1	1			0			1	13	169
26	1	1	1	1	1	1	1		1			1		1	1	1	0			1			1	14	196
27	1	1	1	1	0	0	0		0			1		1	1	1	1			1			1	11	121
28	1	1	1	1	1	1	1		0			1		1	1	1	1			1			1	14	196
29	1	1	1	1	1	1	1		1			1		1	1	1	0			1			1	14	196
30	1	1	1	1	1	0	1		1			1		0	0	1	1			1			1	12	144
C _i	29	29	28	28	27	28	27	0	24	0	0	27	0	27	22	29	24	0	0	26	0	0	27	402	5452
C _i ²	841	841	784	784	729	784	729	0	576	0	0	729	0	729	484	841	576	0	0	676	0	0	729	10832	

9. Pengujian IX

- Struktur hipotesis:

H_0 : Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

H_1 : Semua atribut yang diuji memiliki proporsi jawaban YA yang berbeda

- Taraf nyata: $\alpha = 0,05$
- Statistik Uji: Uji Cochran ($Q - Test$)

$$R = 30$$

$$C = 15$$

$$\sum_{i=1}^{30} R_i = 402 \quad \sum_{i=1}^{23} C_i = 402$$

$$\sum_{i=1}^{30} R_i^2 = 5452 \quad \sum_{i=1}^{23} C_i^2 = 10832$$

$$Q = \frac{[k(k-1) \sum_i C_j^2] - [(k-1)(\sum_i C_j)^2]}{k \sum_i R_i - \sum_i R_i^2}$$

$$= \frac{[15(15-1)10832] - [(15-1)(402)^2]}{15(402) - 5452}$$

$$= 21,218$$

- Wilayah Kritis:

$$\alpha = 0,05$$

$$v = k - 1 = 15 - 1 = 14$$

$$Q(\alpha; v) = Q(0,05; 14) = 23,685$$

- Keputusan:

$$Q > Q(\alpha; v) \rightarrow \text{Terima } H_0$$

- Kesimpulan: Semua atribut yang diuji memiliki proporsi jawaban YA yang sama

ANACOR

```
>Warning # 17912. Command name: ANACOR
>The number of dimensions is greater than minimum number of rows or columns
>minus 1. It is adjusted.
```

```
A N A C O R - VERSION 0.4
BY
DEPARTMENT OF DATA THEORY
UNIVERSITY OF LEIDEN, THE NETHERLANDS
```

```
>Warning # 17954. Command name: ANACOR
>No low-resolution plots can be drawn since there is only one valid dimension.
```

The table to be analyzed:

	1 AyamJago	2 Delima	Margin
1	145	215	360
2	161	197	358
3	186	174	360
4	179	181	360
5	177	183	360
6	196	164	360
7	194	166	360
8	170	190	360
9	174	186	360
10	196	164	360
11	192	168	360
12	179	181	360
13	187	173	360
14	167	193	360
15	158	202	360

Margin	2661	2737	5398

The Rowprofiles:

	1 AyamJago	2 Delima	Margin
1	,403	,597	1,000
2	,450	,550	1,000
3	,517	,483	1,000
4	,497	,503	1,000
5	,492	,508	1,000
6	,544	,456	1,000
7	,539	,461	1,000
8	,472	,528	1,000
9	,483	,517	1,000
10	,544	,456	1,000
11	,533	,467	1,000
12	,497	,503	1,000
13	,519	,481	1,000
14	,464	,536	1,000
15	,439	,561	1,000

Margin	,493	,507	

The Columnprofiles:

	1 AyamJago	2 Delima	Margin
1	,054	,079	,067
2	,061	,072	,066
3	,070	,064	,067
4	,067	,066	,067
5	,067	,067	,067
6	,074	,060	,067
7	,073	,061	,067
8	,064	,069	,067
9	,065	,068	,067
10	,074	,060	,067
11	,072	,061	,067
12	,067	,066	,067
13	,070	,063	,067
14	,063	,071	,067
15	,059	,074	,067
Margin	1,000	1,000	

Dimension	Singular Value	Inertia	Proportion Explained	Cumulative Proportion
1	,08106	,00657	1,000	1,000
Total		,00657	1,000	1,000

Row Scores:

Row	Marginal Profile	Dim 1
1	,067	-,634
2	,066	-,304
3	,067	,167
4	,067	,030
5	,067	-,009
6	,067	,362
7	,067	,323
8	,067	-,146
9	,067	-,068
10	,067	,362
11	,067	,284
12	,067	,030
13	,067	,186
14	,067	-,204
15	,067	-,380

Contribution of row points to the inertia of each dimension:

Row	Marginal Profile	Dim 1
1	,067	,330
2	,066	,076
3	,067	,023
4	,067	,001
5	,067	,000
6	,067	,108
7	,067	,086
8	,067	,017
9	,067	,004
10	,067	,108
11	,067	,066
12	,067	,001
13	,067	,028
14	,067	,034
15	,067	,119

		1,000

Contribution of dimensions to the inertia of each row point:

Row	Marginal Profile	Dim 1	Total
1	,067	1,000	1,000
2	,066	1,000	1,000
3	,067	1,000	1,000
4	,067	1,000	1,000
5	,067	1,000	1,000
6	,067	1,000	1,000
7	,067	1,000	1,000
8	,067	1,000	1,000
9	,067	1,000	1,000
10	,067	1,000	1,000
11	,067	1,000	1,000
12	,067	1,000	1,000
13	,067	1,000	1,000
14	,067	1,000	1,000
15	,067	1,000	1,000

Column Scores:

Column	Marginal Profile	Dim 1
1 AyamJago	,493	,289
2 Delima	,507	-,281

Contribution of column points to the inertia of each dimension:

Column	Marginal Profile	Dim 1
1 AyamJago	,493	,507
2 Delima	,507	,493

		1,000

Contribution of dimensions to the inertia of each column point:

Column	Marginal Profile	Dim 1	Total
1 AyamJago	,493	1,000	1,000
2 Delima	,507	1,000	1,000

Variances and Correlation Matrix of the singular values:

Dim Variances	Correlations between dimensions
1 1,82E-004	1,000

Variances and Correlation Matrix of scores of Row 1

Dim Variances	Correlations between dimensions
1 ,003	1,000

Variances and Correlation Matrix of scores of Row 2

Dim Variances	Correlations between dimensions
1 6,60E-004	1,000

Variances and Correlation Matrix of scores of Row 3

Dim Variances	Correlations between dimensions
1 2,05E-004	1,000

Variances and Correlation Matrix of scores of Row 4

Dim Variances	Correlations between dimensions
1 2,08E-005	1,000

Variances and Correlation Matrix of scores of Row 5

Dim Variances	Correlations between dimensions
1 1,57E-005	1,000

Variances and Correlation Matrix of scores of Row 6

Dim Variances	Correlations between dimensions
1 9,18E-004	1,000

Variances and Correlation Matrix of scores of Row 7

Dim Variances Correlations between dimensions

1 7,33E-004 1,000

Variances and Correlation Matrix of scores of Row 8

Dim Variances Correlations between dimensions

1 1,64E-004 1,000

Variances and Correlation Matrix of scores of Row 9

Dim Variances Correlations between dimensions

1 4,77E-005 1,000

Variances and Correlation Matrix of scores of Row 10

Dim Variances Correlations between dimensions

1 9,18E-004 1,000

Variances and Correlation Matrix of scores of Row 11

Dim Variances Correlations between dimensions

1 5,69E-004 1,000

Variances and Correlation Matrix of scores of Row 12

Dim Variances Correlations between dimensions

1 2,08E-005 1,000

Variances and Correlation Matrix of scores of Row 13

Dim Variances Correlations between dimensions

1 2,53E-004 1,000

Variances and Correlation Matrix of scores of Row 14

Dim Variances Correlations between dimensions

1 3,07E-004 1,000

Variances and Correlation Matrix of scores of Row 15

Dim Variances Correlations between dimensions

1 ,001 1,000

Variances and Correlation Matrix of scores of Column 1 AyamJago

Dim Variances	Correlations between dimensions
1 5,94E-004	1,000

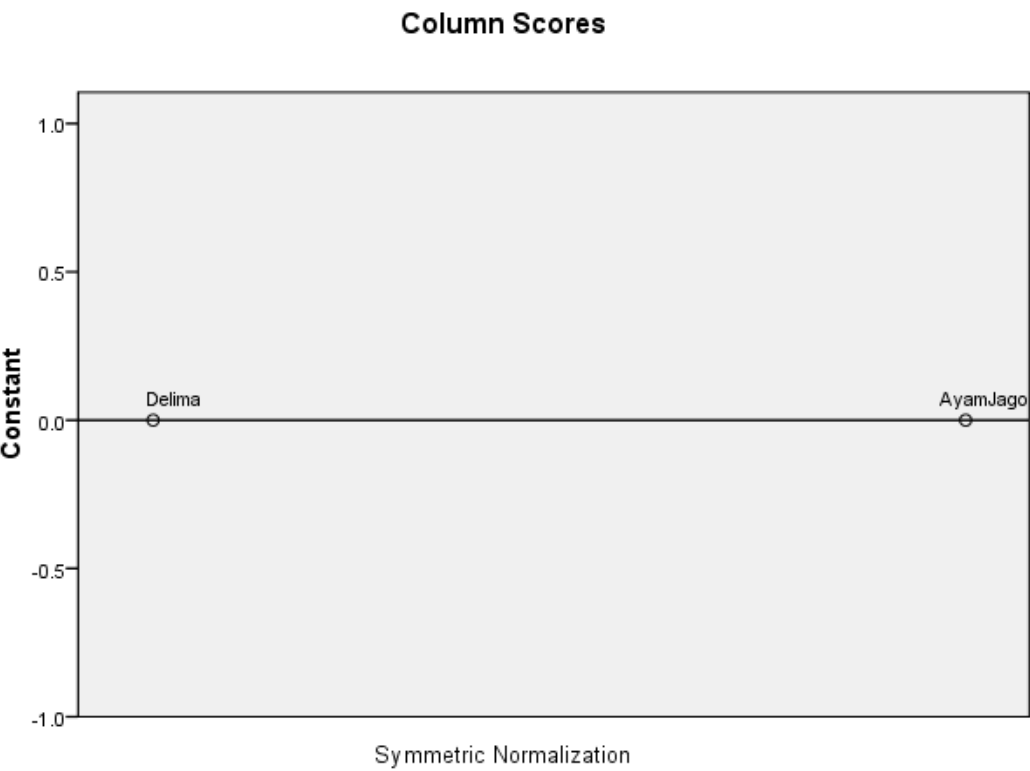
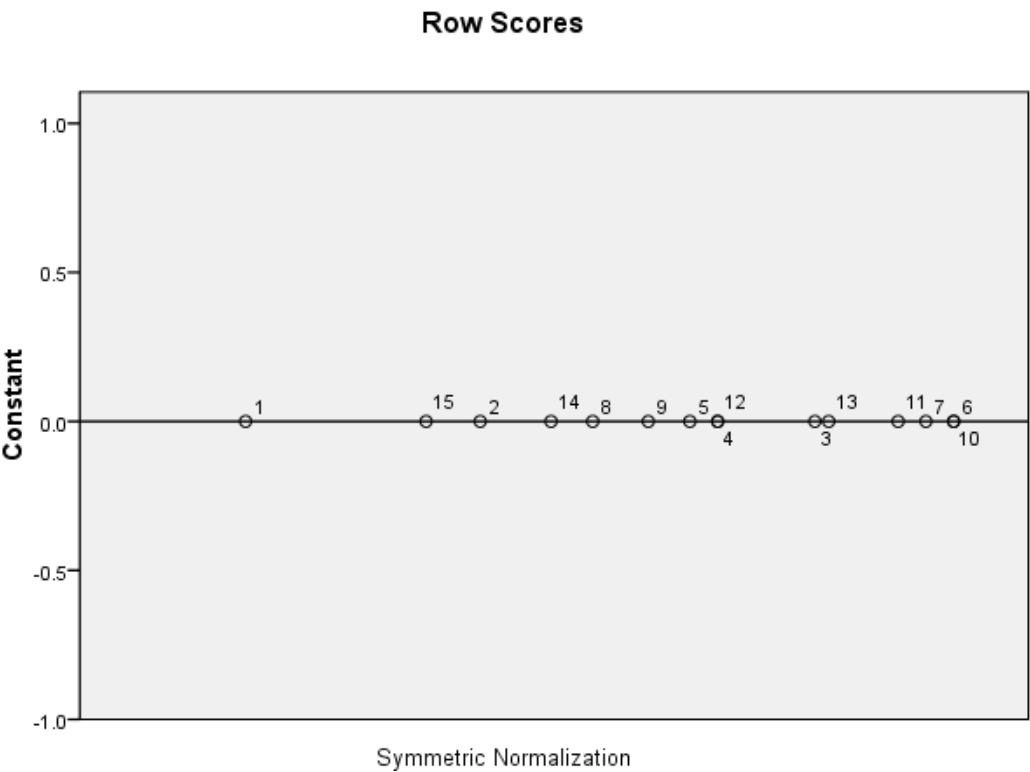
Variances and Correlation Matrix of scores of Column 2 Delima

Dim Variances	Correlations between dimensions
1 5,62E-004	1,000

The data-matrix permuted according to the scores in dimension: 1

	2 Delima	1 AyamJago	Margin
1	215	145	360
15	202	158	360
2	197	161	358
14	193	167	360
8	190	170	360
9	186	174	360
5	183	177	360
4	181	179	360
12	181	179	360
3	174	186	360
13	173	187	360
11	168	192	360
7	166	194	360
10	164	196	360
6	164	196	360

Margin	2737	2661	5398



-

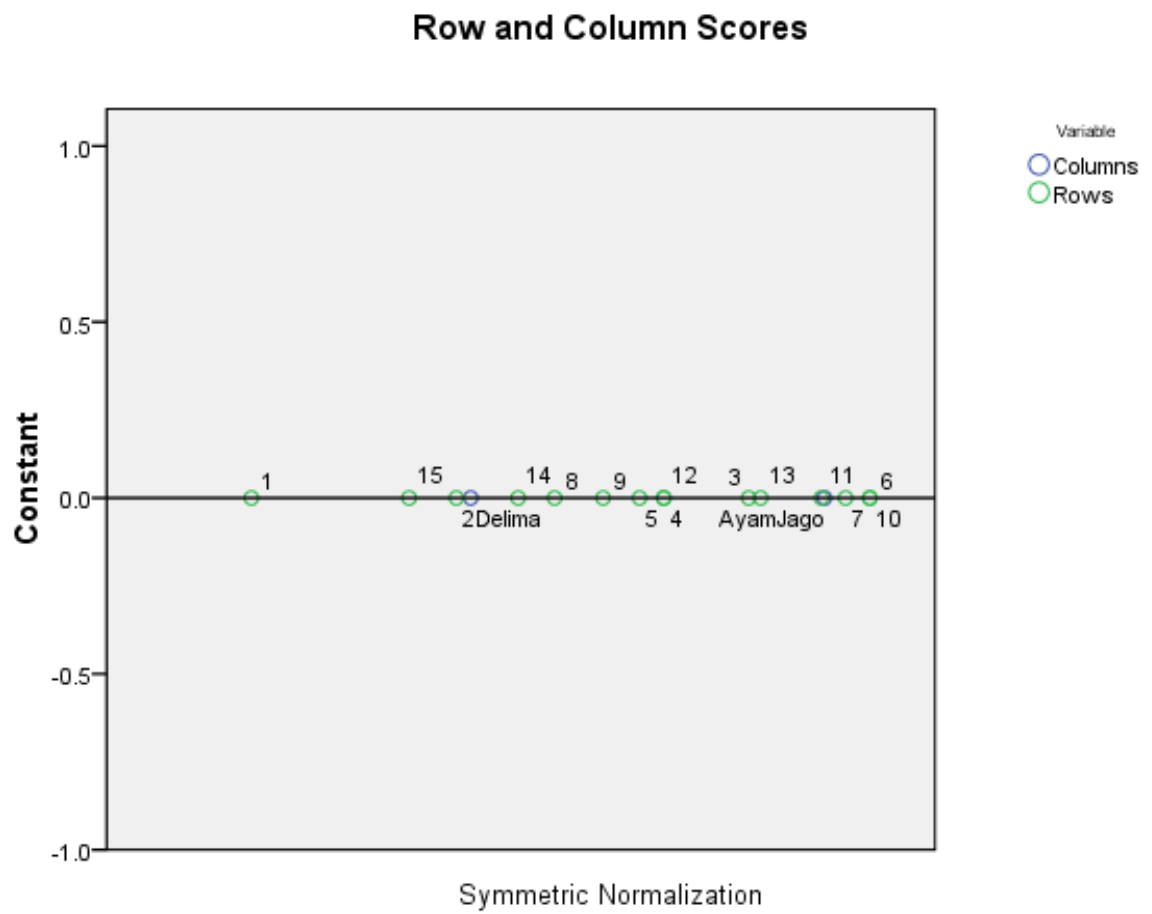


Table A.5 Chi-Squared Distribution Probability Table

739

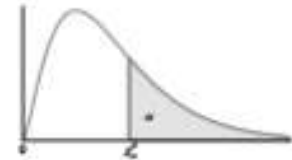


Table A.5 Critical Values of the Chi-Squared Distribution

ν	α									
	0.995	0.99	0.98	0.975	0.95	0.90	0.80	0.75	0.70	0.50
1	0.004393	0.00457	0.00475	0.00492	0.00510	0.00538	0.00576	0.00615	0.00655	0.00719
2	0.0100	0.0201	0.0404	0.0506	0.103	0.211	0.446	0.575	0.713	1.386
3	0.0717	0.115	0.185	0.216	0.352	0.584	1.005	1.213	1.424	2.366
4	0.207	0.297	0.429	0.484	0.711	1.064	1.649	1.923	2.195	3.357
5	0.412	0.554	0.752	0.831	1.145	1.610	2.343	2.675	3.000	4.351
6	0.676	0.872	1.134	1.237	1.635	2.204	3.070	3.455	3.828	5.348
7	0.989	1.239	1.564	1.690	2.167	2.833	3.822	4.255	4.671	6.346
8	1.344	1.647	2.032	2.180	2.733	3.490	4.594	5.071	5.527	7.344
9	1.735	2.088	2.532	2.700	3.325	4.168	5.380	5.899	6.393	8.343
10	2.156	2.558	3.059	3.247	3.940	4.865	6.179	6.737	7.267	9.342
11	2.603	3.053	3.609	3.816	4.575	5.578	6.989	7.584	8.148	10.341
12	3.074	3.571	4.178	4.404	5.226	6.304	7.807	8.438	9.034	11.340
13	3.565	4.107	4.765	5.009	5.892	7.041	8.634	9.299	9.926	12.340
14	4.075	4.660	5.368	5.629	6.571	7.790	9.467	10.165	10.821	13.339
15	4.601	5.229	5.985	6.262	7.261	8.547	10.307	11.037	11.721	14.339
16	5.142	5.812	6.614	6.908	7.962	9.312	11.152	11.912	12.624	15.338
17	5.697	6.408	7.255	7.564	8.672	10.085	12.002	12.792	13.531	16.338
18	6.265	7.015	7.906	8.231	9.390	10.865	12.857	13.675	14.440	17.338
19	6.844	7.633	8.567	8.907	10.117	11.651	13.716	14.562	15.352	18.338
20	7.434	8.260	9.237	9.591	10.851	12.443	14.578	15.452	16.266	19.337
21	8.034	8.897	9.915	10.283	11.591	13.240	15.445	16.344	17.182	20.337
22	8.643	9.542	10.600	10.982	12.338	14.041	16.314	17.240	18.101	21.337
23	9.260	10.196	11.293	11.689	13.091	14.848	17.187	18.137	19.021	22.337
24	9.886	10.856	11.992	12.401	13.848	15.659	18.062	19.037	19.943	23.337
25	10.520	11.524	12.697	13.120	14.611	16.473	18.940	19.939	20.867	24.337
26	11.160	12.198	13.409	13.844	15.379	17.292	19.820	20.843	21.792	25.336
27	11.808	12.878	14.125	14.573	16.151	18.114	20.703	21.749	22.719	26.336
28	12.461	13.565	14.847	15.308	16.928	18.939	21.588	22.657	23.647	27.336
29	13.121	14.256	15.574	16.047	17.708	19.768	22.475	23.567	24.577	28.336
30	13.787	14.953	16.306	16.791	18.493	20.599	23.364	24.478	25.508	29.336
40	20.707	22.164	23.838	24.433	26.509	29.051	32.345	33.66	34.872	39.335
50	27.991	29.707	31.664	32.357	34.764	37.689	41.449	42.942	44.313	49.335
60	35.534	37.485	39.699	40.482	43.188	46.459	50.641	52.294	53.809	59.335

Table A.5 (continued) Critical Values of the Chi-Squared Distribution

ν	α									
	0.30	0.25	0.20	0.10	0.05	0.025	0.02	0.01	0.005	0.001
1	1.074	1.323	1.642	2.706	3.841	5.024	5.412	6.635	7.879	10.827
2	2.408	2.773	3.219	4.605	5.991	7.378	7.824	9.210	10.597	13.815
3	3.665	4.108	4.642	6.251	7.815	9.348	9.837	11.345	12.838	16.266
4	4.878	5.385	5.989	7.779	9.488	11.143	11.668	13.277	14.860	18.466
5	6.064	6.626	7.289	9.236	11.070	12.832	13.388	15.086	16.750	20.515
6	7.231	7.841	8.558	10.645	12.592	14.449	15.033	16.812	18.548	22.457
7	8.383	9.037	9.803	12.017	14.067	16.013	16.622	18.475	20.278	24.321
8	9.524	10.219	11.030	13.362	15.507	17.535	18.168	20.090	21.955	26.124
9	10.656	11.389	12.242	14.684	16.919	19.023	19.679	21.666	23.589	27.877
10	11.781	12.549	13.442	15.987	18.307	20.483	21.161	23.209	25.188	29.588
11	12.899	13.701	14.631	17.275	19.675	21.920	22.618	24.725	26.757	31.264
12	14.011	14.845	15.812	18.549	21.026	23.337	24.054	26.217	28.300	32.909
13	15.119	15.984	16.985	19.812	22.362	24.736	25.471	27.688	29.819	34.527
14	16.222	17.117	18.151	21.064	23.685	26.119	26.873	29.141	31.319	36.124
15	17.322	18.245	19.311	22.307	24.996	27.488	28.259	30.578	32.801	37.698
16	18.418	19.369	20.465	23.542	26.296	28.845	29.633	32.000	34.267	39.252
17	19.511	20.489	21.615	24.769	27.587	30.191	30.995	33.409	35.718	40.791
18	20.601	21.605	22.760	25.989	28.869	31.526	32.346	34.805	37.156	42.312
19	21.689	22.718	23.900	27.204	30.144	32.852	33.687	36.191	38.582	43.819
20	22.775	23.828	25.038	28.412	31.410	34.170	35.020	37.566	39.997	45.314
21	23.858	24.935	26.171	29.615	32.671	35.479	36.343	38.932	41.401	46.796
22	24.939	26.039	27.301	30.813	33.924	36.781	37.659	40.289	42.796	48.268
23	26.018	27.141	28.429	32.007	35.172	38.076	38.968	41.638	44.181	49.728
24	27.096	28.241	29.553	33.196	36.415	39.364	40.270	42.980	45.558	51.179
25	28.172	29.339	30.675	34.382	37.652	40.646	41.566	44.314	46.928	52.619
26	29.246	30.435	31.795	35.563	38.885	41.923	42.856	45.642	48.290	54.051
27	30.319	31.528	32.912	36.741	40.113	43.195	44.140	46.963	49.645	55.475
28	31.391	32.620	34.027	37.916	41.337	44.461	45.419	48.278	50.994	56.892
29	32.461	33.711	35.139	39.087	42.557	45.722	46.693	49.588	52.335	58.301
30	33.530	34.800	36.250	40.256	43.773	46.979	47.962	50.892	53.672	59.702
40	44.165	45.616	47.269	51.805	55.758	59.342	60.436	63.691	66.766	73.403
50	54.723	56.334	58.164	63.167	67.505	71.420	72.613	76.154	79.490	86.660
60	65.226	66.981	68.972	74.397	79.082	83.298	84.58	88.379	91.952	99.608

(Pearson Product Moment correlation coefficient)

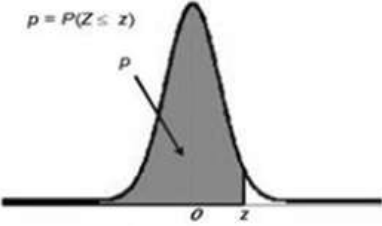
	0.05	0.025	0.01	0.005	One-tail
df = N-2	0.100	0.050	0.020	0.010	Two-tail
1	0.988	0.997	0.9995	0.9999	
2	0.900	0.950	0.980	0.990	
3	0.805	0.878	0.934	0.959	
4	0.729	0.811	0.882	0.917	
5	0.669	0.754	0.833	0.874	
6	0.622	0.707	0.789	0.834	
7	0.582	0.666	0.750	0.798	
8	0.549	0.632	0.716	0.765	
9	0.521	0.602	0.685	0.735	
10	0.497	0.576	0.658	0.708	
11	0.476	0.553	0.634	0.684	
12	0.458	0.532	0.612	0.661	
13	0.441	0.514	0.592	0.641	
14	0.426	0.497	0.574	0.623	
15	0.412	0.482	0.558	0.606	
16	0.400	0.468	0.542	0.590	
17	0.389	0.456	0.528	0.575	
18	0.378	0.444	0.516	0.561	
19	0.369	0.433	0.503	0.549	
20	0.360	0.423	0.492	0.537	
21	0.352	0.413	0.482	0.526	
22	0.344	0.404	0.472	0.515	
23	0.337	0.396	0.462	0.505	
24	0.330	0.388	0.453	0.496	
25	0.323	0.381	0.445	0.487	
26	0.317	0.374	0.437	0.479	
27	0.311	0.367	0.430	0.471	
28	0.306	0.361	0.423	0.463	
29	0.301	0.355	0.416	0.456	
30	0.296	0.349	0.409	0.449	

	0.05	0.025	0.01	0.005	One-tail
df = N-2	0.100	0.050	0.020	0.010	Two-tail
35	0.988	0.325	0.381	0.418	
40	0.257	0.304	0.358	0.393	
45	0.243	0.288	0.338	0.372	
50	0.231	0.273	0.322	0.354	
60	0.211	0.250	0.295	0.325	
70	0.195	0.232	0.274	0.303	
80	0.183	0.217	0.256	0.283	
90	0.173	0.205	0.242	0.267	
100	0.164	0.195	0.230	0.254	
125	0.147	0.174	0.206	0.228	
150	0.134	0.159	0.189	0.208	
200	0.116	0.138	0.164	0.181	
300	0.095	0.113	0.134	0.148	
400	0.082	0.098	0.116	0.128	
500	0.073	0.088	0.104	0.115	
1000	0.052	0.062	0.073	0.081	

ຈາກ : Guilford, J. P. and Fruchter, Benjamin. *Fundamental Statistics in Psychology and Education*.

Singapore : McGraw-Hill, 1978.

Inverse Normal Distribution Values



p	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
0.5	0.0000	0.0025	0.0050	0.0075	0.0100	0.0125	0.0150	0.0175	0.0201	0.0226
0.51	0.0251	0.0276	0.0301	0.0326	0.0351	0.0376	0.0401	0.0426	0.0451	0.0476
0.52	0.0502	0.0527	0.0552	0.0577	0.0602	0.0627	0.0652	0.0677	0.0702	0.0728
0.53	0.0753	0.0778	0.0803	0.0828	0.0853	0.0878	0.0904	0.0929	0.0954	0.0979
0.54	0.1004	0.1030	0.1055	0.1080	0.1105	0.1130	0.1156	0.1181	0.1206	0.1231
0.55	0.1257	0.1282	0.1307	0.1332	0.1358	0.1383	0.1408	0.1434	0.1459	0.1484
0.56	0.1510	0.1535	0.1560	0.1586	0.1611	0.1637	0.1662	0.1687	0.1713	0.1738
0.57	0.1764	0.1789	0.1815	0.1840	0.1866	0.1891	0.1917	0.1942	0.1968	0.1993
0.58	0.2019	0.2045	0.2070	0.2096	0.2121	0.2147	0.2173	0.2198	0.2224	0.2250
0.59	0.2275	0.2301	0.2327	0.2353	0.2378	0.2404	0.2430	0.2456	0.2482	0.2508
0.6	0.2533	0.2559	0.2585	0.2611	0.2637	0.2663	0.2689	0.2715	0.2741	0.2767
0.61	0.2793	0.2819	0.2845	0.2871	0.2898	0.2924	0.2950	0.2976	0.3002	0.3029
0.62	0.3055	0.3081	0.3107	0.3134	0.3160	0.3186	0.3213	0.3239	0.3266	0.3292
0.63	0.3319	0.3345	0.3372	0.3398	0.3425	0.3451	0.3478	0.3505	0.3531	0.3558
0.64	0.3585	0.3611	0.3638	0.3665	0.3692	0.3719	0.3745	0.3772	0.3799	0.3826
0.65	0.3853	0.3880	0.3907	0.3934	0.3961	0.3989	0.4016	0.4043	0.4070	0.4097
0.66	0.4125	0.4152	0.4179	0.4207	0.4234	0.4261	0.4289	0.4316	0.4344	0.4372
0.67	0.4399	0.4427	0.4454	0.4482	0.4510	0.4538	0.4565	0.4593	0.4621	0.4649
0.68	0.4677	0.4705	0.4733	0.4761	0.4789	0.4817	0.4845	0.4874	0.4902	0.4930
0.69	0.4959	0.4987	0.5015	0.5044	0.5072	0.5101	0.5129	0.5158	0.5187	0.5215
0.7	0.5244	0.5273	0.5302	0.5330	0.5359	0.5388	0.5417	0.5446	0.5476	0.5505
0.71	0.5534	0.5563	0.5592	0.5622	0.5651	0.5681	0.5710	0.5740	0.5769	0.5799
0.72	0.5828	0.5858	0.5888	0.5918	0.5948	0.5978	0.6008	0.6038	0.6068	0.6098
0.73	0.6128	0.6158	0.6189	0.6219	0.6250	0.6280	0.6311	0.6341	0.6372	0.6403
0.74	0.6433	0.6464	0.6495	0.6526	0.6557	0.6588	0.6620	0.6651	0.6682	0.6713
0.75	0.6745	0.6776	0.6808	0.6840	0.6871	0.6903	0.6935	0.6967	0.6999	0.7031
0.76	0.7063	0.7095	0.7128	0.7160	0.7192	0.7225	0.7257	0.7290	0.7323	0.7356
0.77	0.7388	0.7421	0.7454	0.7488	0.7521	0.7554	0.7588	0.7621	0.7655	0.7688
0.78	0.7722	0.7756	0.7790	0.7824	0.7858	0.7892	0.7926	0.7961	0.7995	0.8030
0.79	0.8064	0.8099	0.8134	0.8169	0.8204	0.8239	0.8274	0.8310	0.8345	0.8381
0.8	0.8416	0.8452	0.8488	0.8524	0.8560	0.8596	0.8633	0.8669	0.8705	0.8742
0.81	0.8779	0.8816	0.8853	0.8890	0.8927	0.8965	0.9002	0.9040	0.9078	0.9116
0.82	0.9154	0.9192	0.9230	0.9269	0.9307	0.9346	0.9385	0.9424	0.9463	0.9502
0.83	0.9542	0.9581	0.9621	0.9661	0.9701	0.9741	0.9782	0.9822	0.9863	0.9904
0.84	0.9945	0.9986	1.0027	1.0069	1.0110	1.0152	1.0194	1.0237	1.0279	1.0322
0.85	1.0364	1.0407	1.0450	1.0494	1.0537	1.0581	1.0625	1.0669	1.0714	1.0758
0.86	1.0803	1.0848	1.0893	1.0939	1.0985	1.1031	1.1077	1.1123	1.1170	1.1217
0.87	1.1264	1.1311	1.1359	1.1407	1.1455	1.1503	1.1552	1.1601	1.1650	1.1700
0.88	1.1750	1.1800	1.1850	1.1901	1.1952	1.2004	1.2055	1.2107	1.2160	1.2212
0.89	1.2265	1.2319	1.2372	1.2426	1.2481	1.2536	1.2591	1.2646	1.2702	1.2759
0.9	1.2816	1.2873	1.2930	1.2988	1.3047	1.3106	1.3165	1.3225	1.3285	1.3346
0.91	1.3408	1.3469	1.3532	1.3595	1.3658	1.3722	1.3787	1.3852	1.3917	1.3984
0.92	1.4051	1.4118	1.4187	1.4255	1.4325	1.4395	1.4466	1.4538	1.4611	1.4684
0.93	1.4758	1.4833	1.4909	1.4985	1.5063	1.5141	1.5220	1.5301	1.5382	1.5464
0.94	1.5548	1.5632	1.5718	1.5805	1.5893	1.5982	1.6072	1.6164	1.6258	1.6352
0.95	1.6449	1.6546	1.6646	1.6747	1.6849	1.6954	1.7060	1.7169	1.7279	1.7392
0.96	1.7507	1.7624	1.7744	1.7866	1.7991	1.8119	1.8250	1.8384	1.8522	1.8663
0.97	1.8808	1.8957	1.9110	1.9268	1.9431	1.9600	1.9774	1.9954	2.0141	2.0335
0.98	2.0537	2.0749	2.0969	2.1201	2.1444	2.1701	2.1973	2.2262	2.2571	2.2904
0.99	2.3263	2.3656	2.4089	2.4573	2.5121	2.5758	2.6521	2.7478	2.8782	3.0902