

7. LAMPIRAN

Lampiran 1. *Scoresheet Uji Ranking Hedonik Rolade Lele Daun Bayam*

Uji Ranking Hedonik

Nama: _____ Tanggal: _____
Produk: Rolade
Atribut: Tekstur

Instruksi

Dihadapan anda terdapat 5 macam sampel rolade. Menggunakan ujung jari anda, tekan permukaan sampel secara berurutan dari kiri ke kanan. Setelah menekan seluruhnya, anda boleh mengulanginya sesering yang anda perlukan. Urutkan sampel dari yang kurang anda sukai (ranking=1) hingga sampel yang anda sukai (ranking=5).

kode sampel	ranking (jangan dobel)
...	...
...	...
...	...
...	...
...	...

~ Terima Kasih ~

Uji Ranking Hedonik

Nama: _____ Tanggal: _____
Produk: Rolade
Atribut: Aroma

Instruksi

Dihadapan anda terdapat 5 macam sampel rolade. Ciumlah aroma sampel secara berurutan dari kiri ke kanan. Setelah mencium seluruhnya, anda boleh mengulanginya sesering yang anda perlukan. Urutkan sampel dari yang kurang anda sukai (ranking=1) hingga sampel yang anda sukai (ranking=5).

kode sampel	ranking (jangan dobel)
...	...
...	...
...	...
...	...
...	...

~ Terima Kasih ~

Uji Ranking Hedonik

Nama: _____ Tanggal: _____
 Produk: Rolade
 Atribut: Rasa

Instruksi

Dihadapan anda terdapat 5 macam sampel rolade. Cicipi sampel sampel secara berurutan dari kiri ke kanan, rasakan masing-masing dan berkumurlah sebelum anda mencicipi sampel yang berbeda. Setelah mencicipi seluruhnya, anda boleh mengulanginya sesering yang anda perlukan. Urutkan sampel dari yang kurang anda sukai (ranking=1) hingga sampel yang anda sukai (ranking=5).

kode sampel ranking (jangan dobel)

...
 ...
 ...
 ...
 ...

~ Terima Kasih ~

Uji Ranking Hedonik

Nama: _____ Tanggal: _____
 Produk: Rolade
 Atribut: Warna

Instruksi

Pertama matikan lampu hijau dan nyalakan lampu netral. Dihadapan anda terdapat 5 macam sampel rolade. Amati warna sampel secara berurutan dari kiri ke kanan. Setelah diamati seluruhnya, anda boleh mengulanginya sesering yang anda perlukan. Urutkan sampel dari yang kurang anda sukai (ranking=1) hingga sampel yang anda sukai (ranking=5).

kode sampel ranking (jangan dobel)

...
 ...
 ...
 ...
 ...

~ Terima Kasih ~

Uji Ranking Hedonik

Nama: _____ Tanggal: _____
 Produk: Rolade
 Atribut: *Overall*

Instruksi

Dihadapan anda terdapat 5 macam sampel rolade. Perhatikan keseluruhan parameter mutu seperti tekstur, aroma, rasa, dan warna pada masing-masing sampel secara berurutan dari kiri ke kanan. Urutkan sampel dari yang kurang anda sukai (ranking=1) hingga sampel yang anda sukai (ranking=5).

kode sampel ranking (jangan dobel)

...
 ...
 ...
 ...
 ...

~ Terima Kasih ~

Lampiran 2. Worksheet Uji Ranking Hedonik Rolade Lele Daun Bayam

tanggal uji:
 jenis sampel: rolade

Identifikasi sampel

rolade lele tanpa substitusi tepung daun bayam
 rolade lele dengan substitusi tepung daun bayam 5%
 rolade lele dengan substitusi tepung daun bayam 10%
 rolade lele dengan substitusi tepung daun bayam 15%
 rolade lele dengan substitusi tepung daun bayam 20%

kode

A
 B
 C
 D
 E

kode kombinasi penyajian

ABCDE = 1, 11, 21	CEABD = 6, 16, 26
ACDEB = 2, 12, 22	DEABC = 7, 17, 27
BCDEA = 3, 13, 23	DABCE = 8, 18, 28
BDEAC = 4, 14, 24	EABCD = 9, 19, 29
CDEAB = 5, 15, 25	EBCDA = 10, 20, 30

Penyajian

panelis	kode sampel				
1, 11, 21	653	489	538	216	446
2, 12, 22	749	824	721	967	287
3, 13, 23	381	641	393	375	354
4, 14, 24	968	755	847	643	773
5, 15, 25	741	259	476	127	286
6, 16, 26	573	786	258	296	471
7, 17, 27	834	787	231	958	232
8, 18, 28	399	896	596	282	441
9, 19, 29	875	838	457	927	475
10, 20, 30	439	956	531	345	352

Rekap kode sampel

A	B	C	D	E
653	489	538	216	446
749	287	824	721	967
354	381	641	393	375
643	986	773	755	847
127	286	741	259	476
258	296	573	471	786
231	958	232	834	787
896	596	282	399	441
838	457	927	475	875
352	956	531	345	439

Lampiran 3. Hasil analisa data

Normalitas kadar air

Tests of Normality

Sampel	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Kadar_air 0%	.259	6	.200*	.928	6	.564
5%	.177	6	.200*	.973	6	.912
10%	.233	6	.200*	.856	6	.175
15%	.231	6	.200*	.867	6	.215
20%	.197	6	.200*	.954	6	.771

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

Homogenous Kadar air

Kadar_air

Duncan

Sampel	N	Subset for alpha = 0.05		
		1	2	3
20%	6	51.9550		
15%	6		60.8167	
10%	6			63.1133
5%	6			64.4600
0%	6			65.0167
Sig.		1.000	1.000	.082

Means for groups in homogeneous subsets are displayed.

Normalitas Lemak

Tests of Normality

Sampel	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Lemak 0%	.167	6	.200*	.928	6	.564
5%	.196	6	.200*	.911	6	.441
10%	.169	6	.200*	.956	6	.792
15%	.159	6	.200*	.943	6	.685
20%	.162	6	.200*	.957	6	.797

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

Homogenous Lemak

Lemak

Duncan

Sampel	N	Subset for alpha = 0.05		
		1	2	3
20%	6	6.6185		
15%	6		7.8417	
10%	6		7.8527	
5%	6		8.4777	
0%	6			9.5391
Sig.		1.000	.249	1.000

Means for groups in homogeneous subsets are displayed.

Normalitas Protein

Tests of Normality

Sampel	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Protein 0%	.162	6	.200 [*]	.977	6	.935
5%	.252	6	.200 [*]	.837	6	.124
10%	.262	6	.200 [*]	.895	6	.347
15%	.291	6	.122	.904	6	.399
20%	.155	6	.200 [*]	.938	6	.646

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

Homogenous Protein

Protein

Duncan

Sampel	N	Subset for alpha = 0.05	
		1	2
20%	6	12.1851	
15%	6		15.1040
5%	6		15.2796
10%	6		15.8896
0%	6		16.6182
Sig.		1.000	.092

Means for groups in homogeneous subsets are displayed.

Normalitas Kadar Zat Besi (Fe)

Tests of Normality

Sampel	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
AAS 0%	.200	6	.200*	.883	6	.285
5%	.251	6	.200*	.878	6	.259
10%	.203	6	.200*	.966	6	.863
15%	.319	6	.056	.794	6	.052
20%	.149	6	.200*	.991	6	.992

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

Homogenous Kadar Zat Besi (Fe)

AAS

Duncan

Sampel	N	Subset for alpha = 0.05		
		1	2	3
0%	6	.3710		
5%	6	.5822		
10%	6		1.3059	
15%	6		1.3431	
20%	6			2.3619
Sig.		.208	.822	1.000

Means for groups in homogeneous subsets are displayed.

Normalitas Serat Pangan

Tests of Normality

Sampel	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Serat_pangan 0%	.135	6	.200*	.996	6	.998
5%	.249	6	.200*	.910	6	.437
10%	.191	6	.200*	.931	6	.584
15%	.148	6	.200*	.960	6	.820
20%	.192	6	.200*	.927	6	.558

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

Homogenous Serat Pangan

Serat_pangan

Duncan

Sampel	N	Subset for alpha = 0.05	
		1	2
0%	6	19.9566	
5%	6	21.9058	
10%	6	22.2535	
15%	6		25.4189
20%	6		26.7596
Sig.		.074	.263

Means for groups in homogeneous subsets are displayed.

Sensori**Tekstur****Ranks**

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	0%	30	34.75	1042.50
	5%	30	26.25	787.50
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	322.500
Wilcoxon W	787.500
Z	-1.968
Asymp. Sig. (2-tailed)	.049

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	0%	30	36.68	1100.50
	10%	30	24.32	729.50
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	264.500
Wilcoxon W	729.500
Z	-2.851
Asymp. Sig. (2-tailed)	.004

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	0%	30	35.85	1075.50
	15%	30	25.15	754.50
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	289.500
Wilcoxon W	754.500
Z	-2.472
Asymp. Sig. (2-tailed)	.013

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	0%	30	37.72	1131.50
	20%	30	23.28	698.50
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	233.500
Wilcoxon W	698.500
Z	-3.405
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	5%	30	35.83	1075.00
	10%	30	25.17	755.00
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	290.000
Wilcoxon W	755.000
Z	-2.465
Asymp. Sig. (2-tailed)	.014

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	5%	30	35.42	1062.50
	15%	30	25.58	767.50
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	302.500
Wilcoxon W	767.500
Z	-2.297
Asymp. Sig. (2-tailed)	.022

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	5%	30	36.50	1095.00
	20%	30	24.50	735.00
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	270.000
Wilcoxon W	735.000
Z	-2.773
Asymp. Sig. (2-tailed)	.006

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	10%	30	33.10	993.00
	15%	30	27.90	837.00
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	372.000
Wilcoxon W	837.000
Z	-1.227
Asymp. Sig. (2-tailed)	.220

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	10%	30	33.42	1002.50
	20%	30	27.58	827.50
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	362.500
Wilcoxon W	827.500
Z	-1.361
Asymp. Sig. (2-tailed)	.174

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
TEkstur	15%	30	34.37	1031.00
	20%	30	26.63	799.00
	Total	60		

Test Statistics^a

	TEkstur
Mann-Whitney U	334.000
Wilcoxon W	799.000
Z	-1.767
Asymp. Sig. (2-tailed)	.077

a. Grouping Variable: Sampel

Aroma**Ranks**

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	0%	30	34.60	1038.00
	5%	30	26.40	792.00
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	327.000
Wilcoxon W	792.000
Z	-1.869
Asymp. Sig. (2-tailed)	.062

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	0%	30	35.12	1053.50
	10%	30	25.88	776.50
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	311.500
Wilcoxon W	776.500
Z	-2.103
Asymp. Sig. (2-tailed)	.035

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	0%	30	35.68	1070.50
	15%	30	25.32	759.50
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	294.500
Wilcoxon W	759.500
Z	-2.371
Asymp. Sig. (2-tailed)	.018

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	0%	30	37.60	1128.00
	20%	30	23.40	702.00
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	237.000
Wilcoxon W	702.000
Z	-3.226
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	5%	30	31.33	940.00
	10%	30	29.67	890.00
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	425.000
Wilcoxon W	890.000
Z	-.378
Asymp. Sig. (2-tailed)	.705

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	5%	30	33.02	990.50
	15%	30	27.98	839.50
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	374.500
Wilcoxon W	839.500
Z	-1.146
Asymp. Sig. (2-tailed)	.252

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	5%	30	34.25	1027.50
	20%	30	26.75	802.50
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	337.500
Wilcoxon W	802.500
Z	-1.708
Asymp. Sig. (2-tailed)	.088

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	10%	30	31.53	946.00
	15%	30	29.47	884.00
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	419.000
Wilcoxon W	884.000
Z	-.468
Asymp. Sig. (2-tailed)	.639

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	10%	30	32.92	987.50
	20%	30	28.08	842.50
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	377.500
Wilcoxon W	842.500
Z	-1.107
Asymp. Sig. (2-tailed)	.268

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Aroma	15%	30	32.23	967.00
	20%	30	28.77	863.00
	Total	60		

Test Statistics^a

	Aroma
Mann-Whitney U	398.000
Wilcoxon W	863.000
Z	-.789
Asymp. Sig. (2-tailed)	.430

a. Grouping Variable: Sampel

Warna**Ranks**

	Sampel	N	Mean Rank	Sum of Ranks
Warna	0%	30	31.08	932.50
	5%	30	29.92	897.50
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	432.500
Wilcoxon W	897.500
Z	-.266
Asymp. Sig. (2-tailed)	.790

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	0%	30	31.90	957.00
	10%	30	29.10	873.00
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	408.000
Wilcoxon W	873.000
Z	-.636
Asymp. Sig. (2-tailed)	.525

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	0%	30	35.28	1058.50
	15%	30	25.72	771.50
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	306.500
Wilcoxon W	771.500
Z	-2.167
Asymp. Sig. (2-tailed)	.030

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	0%	30	36.95	1108.50
	20%	30	24.05	721.50
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	256.500
Wilcoxon W	721.500
Z	-2.954
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	5%	30	31.73	952.00
	10%	30	29.27	878.00
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	413.000
Wilcoxon W	878.000
Z	-.561
Asymp. Sig. (2-tailed)	.575

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	5%	30	34.60	1038.00
	15%	30	26.40	792.00
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	327.000
Wilcoxon W	792.000
Z	-1.862
Asymp. Sig. (2-tailed)	.063

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	5%	30	36.12	1083.50
	20%	30	24.88	746.50
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	281.500
Wilcoxon W	746.500
Z	-2.550
Asymp. Sig. (2-tailed)	.011

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	10%	30	32.67	980.00
	15%	30	28.33	850.00
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	385.000
Wilcoxon W	850.000
Z	-.989
Asymp. Sig. (2-tailed)	.323

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	10%	30	34.60	1038.00
	20%	30	26.40	792.00
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	327.000
Wilcoxon W	792.000
Z	-1.866
Asymp. Sig. (2-tailed)	.062

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Warna	15%	30	31.12	933.50
	20%	30	29.88	896.50
	Total	60		

Test Statistics^a

	Warna
Mann-Whitney U	431.500
Wilcoxon W	896.500
Z	-.281
Asymp. Sig. (2-tailed)	.778

a. Grouping Variable: Sampel

RASA**Ranks**

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	0%	30	31.97	959.00
	5%	30	29.03	871.00
	Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	406.000
Wilcoxon W	871.000
Z	-.671
Asymp. Sig. (2-tailed)	.502

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	0%	30	35.15	1054.50
	10%	30	25.85	775.50
	Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	310.500
Wilcoxon W	775.500
Z	-2.111
Asymp. Sig. (2-tailed)	.035

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	0%	30	36.57	1097.00
	15%	30	24.43	733.00
	Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	268.000
Wilcoxon W	733.000
Z	-2.755
Asymp. Sig. (2-tailed)	.006

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	0%	30	37.32	1119.50
	20%	30	23.68	710.50
	Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	245.500
Wilcoxon W	710.500
Z	-3.096
Asymp. Sig. (2-tailed)	.002

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	5%	30	34.18	1025.50
	10%	30	26.82	804.50
	Total	60		

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	5%	30	35.95	1078.50
	15%	30	25.05	751.50
	Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	286.500
Wilcoxon W	751.500
Z	-2.468
Asymp. Sig. (2-tailed)	.014

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	5%	30	36.83	1105.00
	20%	30	24.17	725.00
	Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	260.000
Wilcoxon W	725.000
Z	-2.869
Asymp. Sig. (2-tailed)	.004

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	10%	30	33.07	992.00
	15%	30	27.93	838.00
	Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	373.000
Wilcoxon W	838.000
Z	-1.165
Asymp. Sig. (2-tailed)	.244

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Rasa	10%	30	34.27	1028.00
	20%	30	26.73	802.00
	Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	337.000
Wilcoxon W	802.000
Z	-1.713
Asymp. Sig. (2-tailed)	.087

a. Grouping Variable: Sampel

Ranks

Sampel	N	Mean Rank	Sum of Ranks
Rasa 15%	30	31.58	947.50
20%	30	29.42	882.50
Total	60		

Test Statistics^a

	Rasa
Mann-Whitney U	417.500
Wilcoxon W	882.500
Z	-.495
Asymp. Sig. (2-tailed)	.620

a. Grouping Variable: Sampel

Overall

Ranks

Sampel	N	Mean Rank	Sum of Ranks
Overall 0%	30	31.67	950.00
5%	30	29.33	880.00
Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	415.000
Wilcoxon W	880.000
Z	-.533
Asymp. Sig. (2-tailed)	.594

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Overall	0%	30	34.77	1043.00
	10%	30	26.23	787.00
	Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	322.000
Wilcoxon W	787.000
Z	-1.954
Asymp. Sig. (2-tailed)	.051

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Overall	0%	30	35.08	1052.50
	15%	30	25.92	777.50
	Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	312.500
Wilcoxon W	777.500
Z	-2.080
Asymp. Sig. (2-tailed)	.038

a. Grouping Variable: Sampel

Ranks

Sampel	N	Mean Rank	Sum of Ranks
Overall	0%	38.48	1154.50
	20%	22.52	675.50
Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	210.500
Wilcoxon W	675.500
Z	-3.654
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Sampel

Ranks

Sampel	N	Mean Rank	Sum of Ranks
Overall	5%	32.40	972.00
	10%	28.60	858.00
Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	393.000
Wilcoxon W	858.000
Z	-.865
Asymp. Sig. (2-tailed)	.387

a. Grouping Variable: Sampel

Ranks

Sampel	N	Mean Rank	Sum of Ranks
Overall 5%	30	33.63	1009.00
15%	30	27.37	821.00
Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	356.000
Wilcoxon W	821.000
Z	-1.428
Asymp. Sig. (2-tailed)	.153

a. Grouping Variable: Sampel

Ranks

Sampel	N	Mean Rank	Sum of Ranks
Overall 5%	30	36.63	1099.00
20%	30	24.37	731.00
Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	266.000
Wilcoxon W	731.000
Z	-2.785
Asymp. Sig. (2-tailed)	.005

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Overall	10%	30	32.52	975.50
	15%	30	28.48	854.50
	Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	389.500
Wilcoxon W	854.500
Z	-.917
Asymp. Sig. (2-tailed)	.359

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Overall	10%	30	35.65	1069.50
	20%	30	25.35	760.50
	Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	295.500
Wilcoxon W	760.500
Z	-2.340
Asymp. Sig. (2-tailed)	.019

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Overall	10%	30	35.65	1069.50
	20%	30	25.35	760.50
	Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	295.500
Wilcoxon W	760.500
Z	-2.340
Asymp. Sig. (2-tailed)	.019

a. Grouping Variable: Sampel

Ranks

	Sampel	N	Mean Rank	Sum of Ranks
Overall	15%	30	33.23	997.00
	20%	30	27.77	833.00
	Total	60		

Test Statistics^a

	Overall
Mann-Whitney U	368.000
Wilcoxon W	833.000
Z	-1.255
Asymp. Sig. (2-tailed)	.209

a. Grouping Variable: Sampel