

LAMPIRAN

Lampiran 1. Data Hasil Perhitungan Daya Kembang Kerupuk Putih Telur

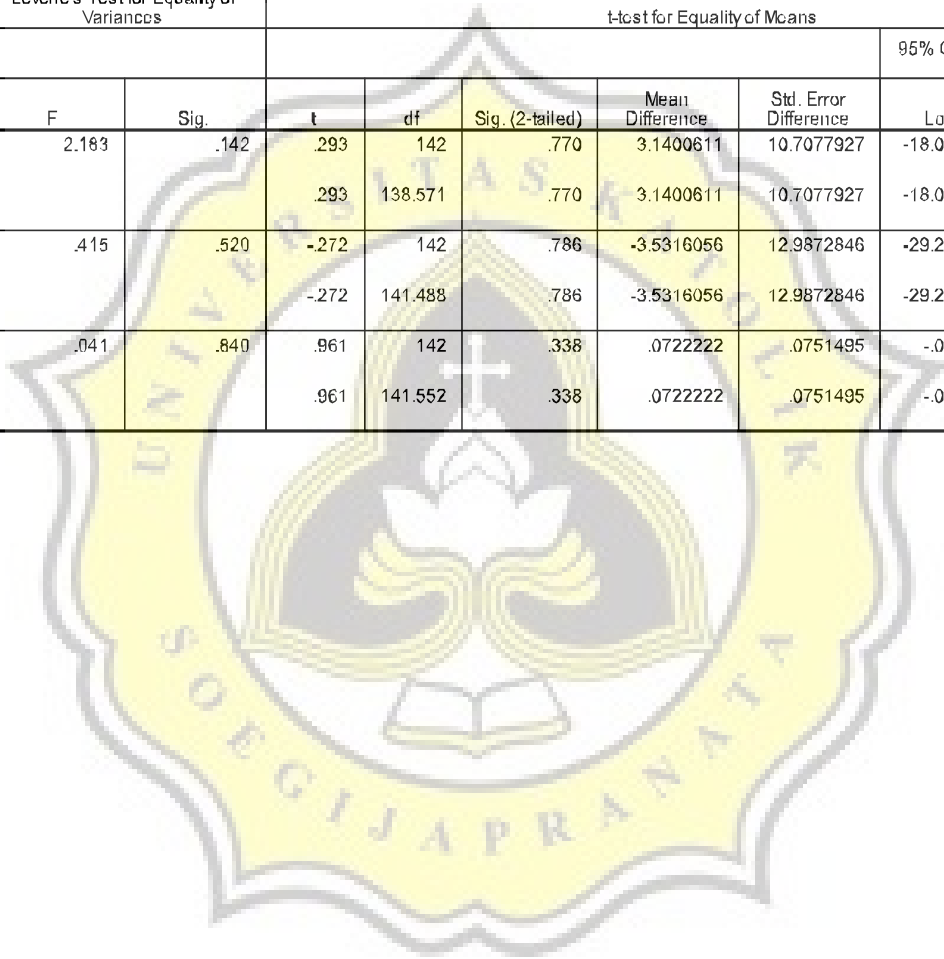
Perlakuan	Batch	Ulangan	Lingkar			Persegi			Persegi Panjang		
			Mentah (mm ²)	Matang (mm ²)	Daya Kembang (%)	Mentah (mm ²)	Matang (mm ²)	Daya Kembang (%)	Mentah (mm ²)	Matang (mm ²)	Daya Kembang (%)
P-0	1	1	891,333	4195,333	370,680	440,000	1988,000	351,818	465,000	2056,000	342,151
		2	868,000	4111,333	373,656	340,000	1143,333	236,275	483,334	2244,000	364,275
		3	1020,000	4186,000	310,392	330,000	1186,667	259,596	430,000	1690,000	293,023
	2	1	863,334	4251,334	392,432	350,000	1250,000	257,143	400,000	1616,000	304,000
		2	867,999	3616,000	316,589	413,333	1773,334	329,033	436,000	1728,000	296,330
		3	952,000	3817,333	300,980	320,000	1086,667	239,583	496,667	2296,000	362,282
P-1	1	1	960,000	4307,333	348,681	480,666	2316,667	381,970	432,000	1693,333	291,975
		2	948,000	4351,000	358,966	360,000	1448,000	302,222	496,000	2256,000	354,839
		3	953,000	4372,667	358,832	364,000	1296,667	256,227	410,667	1910,000	365,097
	2	1	863,333	3163,333	301,158	466,667	1745,333	274,000	370,667	1553,333	319,065
		2	965,334	4216,667	336,809	228,667	997,333	336,152	338,667	1320,000	289,764
		3	908,000	3845,334	323,495	529,667	2280,000	330,459	426,667	1946,000	356,094
P-2	1	1	952,000	4251,333	346,569	471,333	1796,000	281,047	450,000	1816,667	303,704
		2	928,000	3997,000	330,711	412,000	1550,000	276,214	578,667	2030,000	250,806
		3	832,333	3068,000	268,602	316,667	1292,000	307,999	344,000	1445,333	320,155
	2	1	988,000	4496,000	355,061	373,333	1413,333	278,572	372,000	1493,333	301,434
		2	1072,000	4309,667	302,021	506,334	1935,000	282,159	369,333	1516,667	310,650
		3	1001,000	3304,000	284,783	350,000	1383,333	295,238	344,000	1360,000	295,349
P-3	1	1	992,000	4092,667	312,567	256,000	1062,000	192,188	483,333	2130,000	340,690
		2	972,000	3996,000	311,111	456,000	2011,333	341,082	378,667	2100,000	454,578
		3	944,000	4178,333	342,620	380,000	1770,000	365,789	344,000	1000,000	190,698

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P-4	1	1	984,000	4343,333	341,396	343,333	1006,667	193,204	356,000	1448,000	306,742
		2	960,000	3276,000	241,250	304,000	924,000	203,947	420,000	1636,667	289,683
		3	868,000	3276,000	277,419	359,333	1423,333	296,104	466,667	1596,667	242,143
	2	1	956,000	3426,667	258,438	296,000	883,333	198,423	487,667	2058,000	322,010
		2	1052,000	4196,666	298,923	326,667	1110,667	239,999	423,333	1365,333	222,520
		3	996,000	3792,000	280,723	322,000	1242,667	285,921	406,000	1302,000	220,690
P-5	1	1	854,000	2083,333	143,950	557,667	1584,333	184,100	354,000	1143,333	222,976
		2	952,000	3956,000	315,546	354,667	1358,000	282,895	441,000	1698,333	285,110
		3	1033,333	4517,334	337,161	345,333	1364,000	294,981	380,000	1616,000	325,263
	2	1	873,333	3616,667	314,122	392,000	1253,333	219,728	360,000	1646,667	357,407
		2	984,000	3088,000	213,821	331,333	1469,334	343,461	424,667	1901,334	347,724
		3	1028,000	3677,333	257,717	406,667	1340,000	229,508	401,333	1171,333	191,860
P-6	1	1	888,000	3826,667	330,931	336,667	1042,667	209,703	440,000	1708,000	288,182
		2	980,000	3892,000	297,143	347,667	1270,000	265,292	534,333	1673,333	211,478
		3	826,000	3934,000	376,271	396,667	1593,333	301,934	360,000	1386,667	285,185
	2	1	900,667	2890,667	220,947	328,000	1283,333	291,260	400,000	1436,667	259,167
		2	912,000	4304,000	371,930	303,333	1040,000	242,857	320,000	1208,667	277,708
		3	896,000	4153,333	363,542	306,000	940,333	207,299	420,000	1650,000	292,857
P-7	1	1	1012,000	2773,333	174,045	376,666	1029,333	173,274	448,000	1255,000	180,134
		2	1056,000	2752,000	160,606	387,333	998,667	157,831	392,000	1448,000	269,388
		3	882,000	2096,000	137,642	401,333	1036,000	158,140	432,000	1316,667	204,784
	2	1	1083,333	2708,667	150,031	380,000	1052,000	176,842	346,667	1300,000	274,999
		2	948,000	2412,667	154,500	440,000	1252,000	184,546	461,333	1713,333	271,387
		3	1120,000	3117,333	178,333	396,667	896,000	125,882	376,000	1001,000	166,223

Lampiran 2. Analisis Data Statistik *Independent Samples T-test*

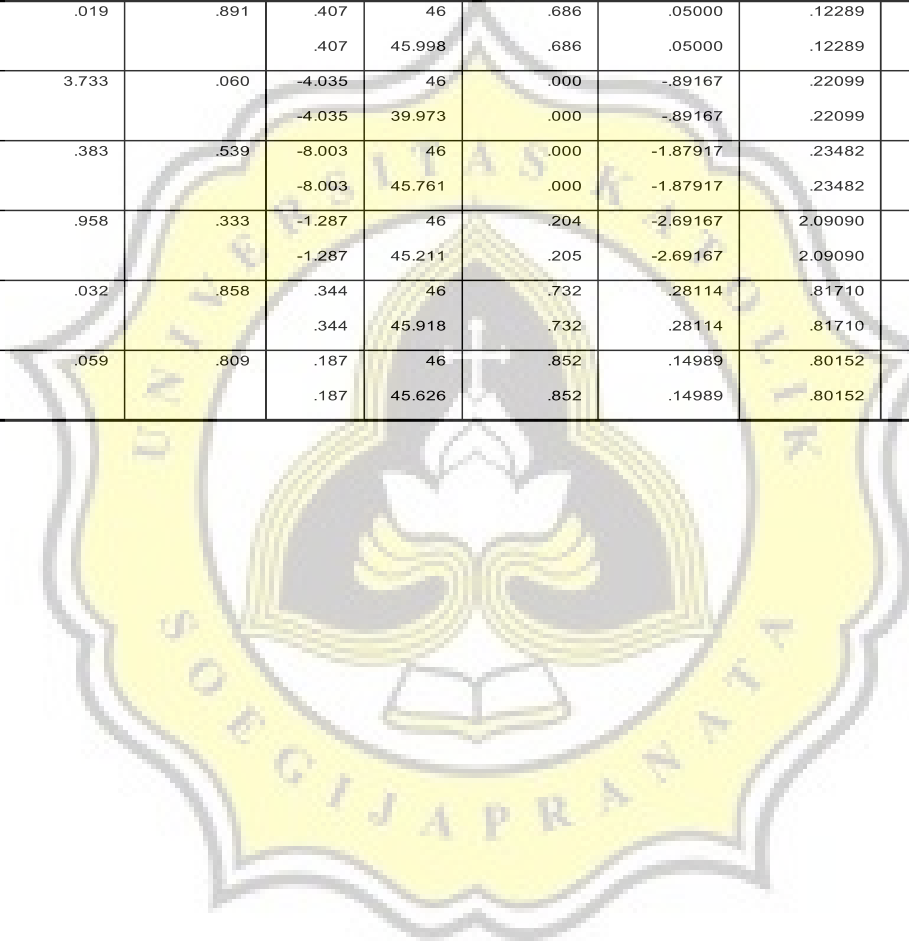
Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Daya_Kembang	Equal variances assumed	2.163	.142	.293	142	.770	3.1400611	10.7077927	-18.0272213	24.3073435
	Equal variances not assumed			.293	138.571	.770	3.1400611	10.7077927	-18.0317235	24.3118457
Break_strength	Equal variances assumed	.415	.520	-.272	142	.786	-3.5316056	12.9872846	-29.2050126	22.1418015
	Equal variances not assumed			-.272	141.488	.786	-3.5316056	12.9872846	-29.2058112	22.1426001
Kadar_Air_3_bentuk	Equal variances assumed	.041	.840	.961	142	.338	.0722222	.0751495	-.0763341	.2207785
	Equal variances not assumed			.961	141.552	.338	.0722222	.0751495	-.0763381	.2207825



Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
									95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Kdr_Air_Mentah	Equal variances assumed	.019	.891	.407	46	.686	.05000	.12289	-.19737	.29737
	Equal variances not assumed			.407	45.998	.686	.05000	.12289	-.19737	.29737
Kdr_Air_Matang	Equal variances assumed	3.733	.060	-4.035	46	.000	-.89167	.22099	-1.33650	-.44683
	Equal variances not assumed			-4.035	39.973	.000	-.89167	.22099	-1.33832	-.44502
Kdr_Lemak_Mentah	Equal variances assumed	.383	.539	-8.003	46	.000	-1.87917	.23482	-2.35184	-1.40650
	Equal variances not assumed			-8.003	45.761	.000	-1.87917	.23482	-2.35190	-1.40643
Kdr_Lemak_Matang	Equal variances assumed	.958	.333	-1.287	46	.204	-2.69167	2.09090	-6.90044	1.51710
	Equal variances not assumed			-1.287	45.211	.205	-2.69167	2.09090	-6.90242	1.51909
Kdr_Protein_Mentah	Equal variances assumed	.032	.858	.344	46	.732	.28114	.81710	-1.36360	1.92588
	Equal variances not assumed			.344	45.918	.732	.28114	.81710	-1.36368	1.92596
Kdr_Protein_Matang	Equal variances assumed	.059	.809	.187	46	.852	.14989	.80152	-1.46350	1.76327
	Equal variances not assumed			.187	45.626	.852	.14989	.80152	-1.46385	1.76363



Lampiran 3. Analisis Data Statistik *Descriptive* Kerupuk Putih Telur

Descriptive Statistics

Dependent Variable: Daya Kembang

Perlakuan	Bentuk	Mean	Std. Deviation	N
P-0	Lingkaran	344.121717	39.1621442	6
	Persegi	278.907950	49.0695506	6
	Persegi_Panjang	327.010150	33.1294899	6
	Total	316.679939	47.8442403	18
P-1	Lingkaran	337.990133	22.6130270	6
	Persegi	313.504983	45.7306621	6
	Persegi_Panjang	329.472217	33.8005107	6
	Total	326.989111	34.7932083	18
P-2	Lingkaran	314.624417	34.8761273	6
	Persegi	286.871467	12.2884142	6
	Persegi_Panjang	297.016217	24.1811463	6
	Total	299.504033	26.7084123	18
P-3	Lingkaran	316.422533	15.6533055	6
	Persegi	310.596600	62.3528038	6
	Persegi_Panjang	317.136533	89.3235417	6
	Total	314.718556	59.7605074	18
P-4	Lingkaran	283.024767	34.7743411	6
	Persegi	236.266650	45.5874452	6
	Persegi_Panjang	267.297633	44.4081648	6
	Total	262.196350	44.1194552	18
P-5	Lingkaran	263.719667	74.1495085	6
	Persegi	259.112100	58.3457381	6
	Persegi_Panjang	288.389917	68.1929054	6
	Total	270.407228	64.5059589	18
P-6	Lingkaran	326.793983	59.8922894	6
	Persegi	253.057583	40.1886700	6
	Persegi_Panjang	269.096267	30.5950138	6
	Total	282.982611	53.5438232	18
P-7	Lingkaran	159.192800	15.2272890	6
	Persegi	162.752533	20.9240090	6
	Persegi_Panjang	227.819383	49.9012969	6
	Total	183.254906	44.5309336	18
Total	Lingkaran	293.236252	69.0518129	48
	Persegi	262.633733	61.7930998	48
	Persegi_Panjang	290.404790	57.5124522	48
	Total	282.091592	64.0411062	144

Descriptive Statistics

Dependent Variable: Breakstrength

Perlakuan	Bentuk	Mean	Std. Deviation	N
P-0	Lingkar	271.680250	29.0536189	6
	Persegi	321.561967	44.5394506	6
	Persegi_Panjang	195.116067	18.6476794	6
	Total	262.786094	61.6230036	18
P-1	Lingkar	244.991917	25.1634700	6
	Persegi	299.389533	45.3392537	6
	Persegi_Panjang	234.427317	10.9633442	6
	Total	259.602922	41.0357215	18
P-2	Lingkar	240.984117	15.2867449	6
	Persegi	284.027367	48.4598618	6
	Persegi_Panjang	231.271333	44.9507076	6
	Total	252.094272	43.7059436	18
P-3	Lingkar	224.773100	25.6914277	6
	Persegi	283.170617	26.3597118	6
	Persegi_Panjang	235.663100	29.1418305	6
	Total	247.868939	36.4548900	18
P-4	Lingkar	257.686450	15.1643658	6
	Persegi	366.776083	22.3879442	6
	Persegi_Panjang	288.331783	32.3039929	6
	Total	304.264772	52.5021095	18
P-5	Lingkar	400.815750	36.8799552	6
	Persegi	391.323983	20.0111816	6
	Persegi_Panjang	402.990650	12.5595271	6
	Total	398.376794	24.3183191	18
P-6	Lingkar	257.499183	41.6453748	6
	Persegi	472.381267	10.4086318	6
	Persegi_Panjang	235.118717	14.9600767	6
	Total	321.666389	112.7907561	18
P-7	Lingkar	283.027933	32.5524947	6
	Persegi	344.659050	129.8268011	6
	Persegi_Panjang	322.437400	45.7736838	6
	Total	316.708128	81.0737033	18
Total	Lingkar	272.682337	58.3580933	48
	Persegi	345.411233	79.7373808	48
	Persegi_Panjang	268.169546	68.9395249	48
	Total	295.421039	77.6709844	144

Descriptive Statistics

Dependent Variable:Kdr Air 3 bentuk

Perlakuan	Bentuk	Mean	Std. Deviation	N
P-0	Lingkaran	9.7000	.35777	6
	Persegi	9.8167	.16021	6
	Persegi Panjang	9.8500	.25100	6
	Total	9.7889	.26097	18
P-1	Lingkaran	9.9833	.26394	6
	Persegi	9.7000	.22804	6
	Persegi Panjang	9.8500	.21679	6
	Total	9.8444	.25257	18
P-2	Lingkaran	9.9500	.10488	6
	Persegi	10.1333	.18619	6
	Persegi Panjang	9.7167	.23166	6
	Total	9.9333	.24495	18
P-3	Lingkaran	9.5167	.45789	6
	Persegi	9.7333	.19664	6
	Persegi Panjang	9.6833	.43551	6
	Total	9.6444	.37136	18
P-4	Lingkaran	9.2000	.26077	6
	Persegi	9.4667	.34448	6
	Persegi Panjang	8.9833	.16021	6
	Total	9.2167	.32222	18
P-5	Lingkaran	10.0667	.08165	6
	Persegi	10.2333	.17512	6
	Persegi Panjang	9.8500	.22583	6
	Total	10.0500	.22816	18
P-6	Lingkaran	9.3667	.20656	6
	Persegi	10.0333	.13663	6
	Persegi Panjang	9.4000	.20000	6
	Total	9.6000	.35974	18
P-7	Lingkaran	9.1500	.18708	6
	Persegi	9.0000	.17889	6
	Persegi Panjang	8.7167	.24014	6
	Total	8.9556	.26618	18
Total	Lingkaran	9.6167	.42192	48
	Persegi	9.7646	.42300	48
	Persegi Panjang	9.5063	.47643	48
	Total	9.6292	.45078	144

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Kdr_Air_Mentah	P-0	6	9.7000	.35777	.14606	9.3245	10.0755	9.30	10.20
	P-1	6	9.9833	.26394	.10775	9.7063	10.2603	9.70	10.40
	P-2	6	9.9500	.10488	.04282	9.8399	10.0601	9.80	10.10
	P-3	6	9.5167	.45789	.18693	9.0361	9.9972	8.70	10.10
	P-4	6	9.2000	.26077	.10646	8.9263	9.4737	8.80	9.60
	P-5	6	10.0667	.08165	.03333	9.9810	10.1524	10.00	10.20
	P-6	6	9.3667	.20656	.08433	9.1499	9.5834	9.10	9.70
	Total	48	9.6167	.42192	.06090	9.4942	9.7392	8.70	10.40
Kdr_Air_Matang	P-0	6	.9917	.64608	.26376	.3136	1.6697	.45	2.20
	P-1	6	.5333	.60964	.24889	-.1064	1.1731	.00	1.30
	P-2	6	1.1167	.95009	.38787	.1196	2.1137	.30	2.30
	P-3	6	1.4583	.53983	.22038	.8918	2.0249	1.10	2.50
	P-4	6	1.8583	.73920	.30178	1.0826	2.6341	1.05	3.00
	P-5	6	1.7167	.27689	.11304	1.4261	2.0072	1.35	2.00
	P-6	6	1.9000	.63953	.26109	1.2289	2.5711	1.30	2.90
	Total	48	1.4708	.88124	.12720	1.2149	1.7267	.00	3.70
Kdr_Lemak_Mentah	P-0	6	5.0833	1.47162	.60079	3.5390	6.6277	3.00	6.50
	P-1	6	5.3500	1.78969	.73064	3.4718	7.2282	3.60	7.50
	P-2	6	4.6000	1.07889	.44045	3.4678	5.7322	3.40	6.20
	P-3	6	4.5500	1.24218	.50712	3.2464	5.8536	3.20	6.20
	P-4	6	4.4167	1.62778	.66454	2.7084	6.1249	2.30	6.20
	P-5	6	4.2667	1.30792	.53396	2.8941	5.6392	2.60	5.90
	P-6	6	4.4000	.70711	.28868	3.6579	5.1421	3.70	5.20
	Total	48	4.7188	1.24467	.17965	4.3573	5.0802	2.30	7.50
Kdr_Lemak_Matang	P-0	6	45.1667	1.18096	.48212	43.9273	46.4060	43.80	47.00
	P-1	6	48.2833	1.56386	.63844	46.6422	49.9245	46.60	50.50
	P-2	6	47.0833	2.25248	.91957	44.7195	49.4472	44.80	49.60
	P-3	6	43.5167	6.27166	2.56039	36.9350	50.0984	35.80	50.10
	P-4	6	44.2000	1.71697	.70095	42.3981	46.0019	42.50	47.20
	P-5	6	32.0500	1.77398	.72422	30.1883	33.9117	29.90	33.80
	P-6	6	37.4333	1.01719	.41526	36.3659	38.5008	36.00	38.80
	Total	48	40.7917	7.29357	1.05274	38.6738	42.9095	27.60	50.50
Kdr_Protein_Mentah	P-0	6	7.6018	.31996	.13062	7.2660	7.9375	7.18	8.05
	P-1	6	6.1494	.33521	.13685	5.7977	6.5012	5.87	6.78
	P-2	6	4.9707	.49647	.20268	4.4497	5.4917	4.55	5.87
	P-3	6	4.6691	.30661	.12517	4.3473	4.9908	4.29	4.99
	P-4	6	5.0483	.16292	.06651	4.8774	5.2193	4.90	5.34
	P-5	6	10.2425	.27111	.11068	9.9580	10.5270	9.89	10.51
	P-6	6	8.4777	.21692	.08856	8.2501	8.7054	8.23	8.75
	Total	48	7.5200	2.80385	.40470	6.7058	8.3341	4.29	13.22
Kdr_Protein_Matang	P-0	6	5.2963	.19183	.07831	5.0950	5.4976	5.08	5.65
	P-1	6	3.4070	.45602	.18617	2.9284	3.8855	2.80	4.20
	P-2	6	3.3121	.33878	.13831	2.9566	3.6676	2.89	3.68
	P-3	6	3.4935	.25761	.10517	3.2231	3.7638	3.33	3.98
	P-4	6	4.1291	.16999	.06940	3.9507	4.3075	3.94	4.38
	P-5	6	8.5648	.16055	.06554	8.3963	8.7333	8.40	8.75
	P-6	6	6.5364	.20458	.08352	6.3217	6.7511	6.30	6.83
	Total	48	5.7486	2.74791	.39663	4.9507	6.5465	2.80	12.43

Lampiran 4. Analisis Data Statistik *Test of Normality* Kerupuk Putih Telur

Tests of Normality

Perlakuan Kombinasi		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Daya_Kembang	P-0 Lingkaran	.259	6	.200*	.863	6	.198
	P-0 Persegi	.320	6	.055	.824	6	.096
	P-0 Persegi Panjang	.256	6	.200*	.835	6	.118
	P-1 Lingkaran	.182	6	.200*	.906	6	.412
	P-1 Persegi	.145	6	.200*	.971	6	.902
	P-1 Persegi Panjang	.274	6	.181	.848	6	.151
	P-2 Lingkaran	.178	6	.200*	.936	6	.631
	P-2 Persegi	.316	6	.062	.842	6	.136
	P-2 Persegi Panjang	.306	6	.083	.824	6	.096
	P-3 Lingkaran	.241	6	.200*	.934	6	.613
	P-3 Persegi	.251	6	.200*	.819	6	.087
	P-3 Persegi Panjang	.167	6	.200*	.974	6	.918
	P-4 Lingkaran	.193	6	.200*	.956	6	.792
	P-4 Persegi	.261	6	.200*	.849	6	.153
	P-4 Persegi Panjang	.214	6	.200*	.877	6	.255
	P-5 Lingkaran	.252	6	.200*	.905	6	.407
	P-5 Persegi	.194	6	.200*	.967	6	.872
	P-5 Persegi Panjang	.206	6	.200*	.904	6	.400
	P-6 Lingkaran	.230	6	.200*	.854	6	.169
	P-6 Persegi	.193	6	.200*	.910	6	.436
	P-6 Persegi Panjang	.277	6	.165	.798	6	.057
P-7 Lingkaran	.169	6	.200*	.965	6	.855	
P-7 Persegi	.240	6	.200*	.900	6	.375	
P-7 Persegi Panjang	.298	6	.105	.823	6	.095	

a. Lilliefors Significance Correction

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

Tests of Normality

Perlakuan Kombinasi		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Breakstrength	P-0 Lingkaran	.321	6	.054	.719	6	.010
	P-0 Persegi	.301	6	.097	.876	6	.250
	P-0 Persegi Panjang	.221	6	.200*	.918	6	.491
	P-1 Lingkaran	.175	6	.200*	.948	6	.724
	P-1 Persegi	.196	6	.200*	.970	6	.896
	P-1 Persegi Panjang	.262	6	.200*	.924	6	.537
	P-2 Lingkaran	.265	6	.200*	.907	6	.417
	P-2 Persegi	.200	6	.200*	.880	6	.271
	P-2 Persegi Panjang	.185	6	.200*	.934	6	.614
	P-3 Lingkaran	.313	6	.068	.809	6	.071
	P-3 Persegi	.215	6	.200*	.927	6	.561
	P-3 Persegi Panjang	.262	6	.200*	.868	6	.219
	P-4 Lingkaran	.314	6	.065	.795	6	.053
	P-4 Persegi	.234	6	.200*	.872	6	.233
	P-4 Persegi Panjang	.305	6	.085	.819	6	.087
	P-5 Lingkaran	.197	6	.200*	.933	6	.606
	P-5 Persegi	.241	6	.200*	.861	6	.194
	P-5 Persegi Panjang	.177	6	.200*	.930	6	.576
	P-6 Lingkaran	.264	6	.200*	.824	6	.095
	P-6 Persegi	.167	6	.200*	.969	6	.887
P-6 Persegi Panjang	.174	6	.200*	.983	6	.964	
P-7 Lingkaran	.192	6	.200*	.900	6	.375	
P-7 Persegi	.288	6	.131	.793	6	.051	
P-7 Persegi Panjang	.240	6	.200*	.859	6	.184	

a. Lilliefors Significance Correction

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

Tests of Normality

Perlakuan Kombinasi		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Kadar_Air	P-0 Lingkaran	.267	6	.200 [*]	.809	6	.070
	P-0 Persegi	.212	6	.200 [*]	.935	6	.619
	P-0 Persegi Panjang	.254	6	.200 [*]	.871	6	.231
	P-1 Lingkaran	.310	6	.074	.815	6	.079
	P-1 Persegi	.192	6	.200 [*]	.908	6	.423
	P-1 Persegi Panjang	.258	6	.200 [*]	.940	6	.659
	P-2 Lingkaran	.262	6	.200 [*]	.862	6	.195
	P-2 Persegi	.183	6	.200 [*]	.960	6	.820
	P-2 Persegi Panjang	.307	6	.080	.823	6	.094
	P-3 Lingkaran	.299	6	.100	.851	6	.161
	P-3 Persegi	.319	6	.057	.889	6	.311
	P-3 Persegi Panjang	.318	6	.058	.839	6	.128
	P-4 Lingkaran	.251	6	.200 [*]	.869	6	.223
	P-4 Persegi	.184	6	.200 [*]	.957	6	.799
	P-4 Persegi Panjang	.208	6	.200 [*]	.908	6	.425
	P-5 Lingkaran	.315	6	.064	.797	6	.055
	P-5 Persegi	.293	6	.117	.822	6	.091
	P-5 Persegi Panjang	.247	6	.200 [*]	.933	6	.600
	P-6 Lingkaran	.263	6	.200 [*]	.823	6	.093
	P-6 Persegi	.269	6	.199	.915	6	.473
P-6 Persegi Panjang	.167	6	.200 [*]	.976	6	.933	
P-7 Lingkaran	.212	6	.200 [*]	.933	6	.607	
P-7 Persegi	.122	6	.200 [*]	.982	6	.961	
P-7 Persegi Panjang	.194	6	.200 [*]	.891	6	.324	

a. Lilliefors Significance Correction

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

Tests of Normality

Perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Kdr_Air_Mentah	P-0	.212	6	.200*	.935	6	.619
	P-1	.192	6	.200*	.908	6	.423
	P-2	.183	6	.200*	.960	6	.820
	P-3	.319	6	.057	.889	6	.311
	P-4	.184	6	.200*	.957	6	.799
	P-5	.293	6	.117	.822	6	.091
	P-6	.269	6	.199	.915	6	.473
	P-7	.122	6	.200*	.982	6	.961
Kdr_Air_Matang	P-0	.253	6	.200*	.824	6	.095
	P-1	.285	6	.139	.787	6	.045
	P-2	.259	6	.200*	.785	6	.043
	P-3	.266	6	.200*	.748	6	.019
	P-4	.251	6	.200*	.914	6	.463
	P-5	.285	6	.139	.854	6	.171
	P-6	.259	6	.200*	.870	6	.225
	P-7	.276	6	.170	.820	6	.089
Kdr_Lemak_Mentah	P-0	.255	6	.200*	.870	6	.224
	P-1	.275	6	.176	.835	6	.118
	P-2	.211	6	.200*	.939	6	.651
	P-3	.176	6	.200*	.919	6	.499
	P-4	.234	6	.200*	.891	6	.321
	P-5	.246	6	.200*	.914	6	.465
	P-6	.302	6	.093	.804	6	.064
	P-7	.321	6	.053	.822	6	.092
Kdr_Lemak_Matang	P-0	.214	6	.200*	.953	6	.761
	P-1	.256	6	.200*	.913	6	.458
	P-2	.273	6	.185	.819	6	.086
	P-3	.272	6	.186	.852	6	.165
	P-4	.236	6	.200*	.903	6	.392
	P-5	.277	6	.168	.832	6	.111
	P-6	.108	6	.200*	.992	6	.994
	P-7	.183	6	.200*	.962	6	.837
Kdr_Protein_Mentah	P-0	.192	6	.200*	.960	6	.819
	P-1	.255	6	.200*	.818	6	.085
	P-2	.290	6	.126	.837	6	.124
	P-3	.186	6	.200*	.887	6	.301
	P-4	.262	6	.200*	.862	6	.195
	P-5	.241	6	.200*	.867	6	.213
	P-6	.267	6	.200*	.895	6	.343
	P-7	.205	6	.200*	.902	6	.387
Kdr_Protein_Matang	P-0	.257	6	.200*	.882	6	.277
	P-1	.251	6	.200*	.904	6	.400
	P-2	.193	6	.200*	.900	6	.377
	P-3	.287	6	.133	.750	6	.020
	P-4	.226	6	.200*	.912	6	.453
	P-5	.215	6	.200*	.850	6	.158
	P-6	.223	6	.200*	.908	6	.421
	P-7	.149	6	.200*	.977	6	.937

a. Lilliefors Significance Correction

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

Lampiran 5. Analisis Data Statistik *Post Hoc Test* Kerupuk Putih Telur

Post Hoc Test Daya Kembang Kerupuk Putih Telur

Daya_Kembang

Duncan^{a,b}

Perlakuan	N	Subset				
		1	2	3	4	5
P-7	18	183.254906				
P-4	18		262.196350			
P-5	18		270.407228	270.407228		
P-6	18		282.982611	282.982611	282.982611	
P-2	18			299.504033	299.504033	299.504033
P-3	18				314.718556	314.718556
P-0	18				316.679939	316.679939
P-1	18					326.989111
Sig.		1.000	.229	.091	.058	.124

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 2355.929.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Daya_Kembang

Duncan^{a,b}

Bentuk	N	Subset	
		1	2
Persegi	48	262.633733	
Persegi_Panjang	48		290.404790
Lingkaran	48		293.236252
Sig.		1.000	.827

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 4000.810.

a. Uses Harmonic Mean Sample Size = 48.000.

b. Alpha = .05.

Post Hoc Test Tekstur (*break strength*) Kerupuk Putih Telur

Breakstrength

Duncan^{a,,b}

Perlakuan	N	Subset		
		1	2	3
P-3	18	247.868939		
P-2	18	252.094272		
P-1	18	259.602922		
P-0	18	262.786094		
P-4	18		304.264772	
P-7	18		316.708128	
P-6	18		321.666389	
P-5	18			398.376794
Sig.		.523	.437	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 3930.361.

- a. Uses Harmonic Mean Sample Size = 18.000.
- b. Alpha = .05.

Breakstrength

Duncan^{a,,b}

Bentuk	N	Subset	
		1	2
Persegi_Panjang	48	268.169546	
Lingkaran	48	272.682337	
Persegi	48		345.411233
Sig.		.752	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 4861.628.

- a. Uses Harmonic Mean Sample Size = 48.000.
- b. Alpha = .05.

Post Hoc Test Kadar Air 3 Bentuk Kerupuk Putih Telur Mentah

Kadar_Air

Duncan^{a..b}

Perlakuan	N	Subsct				
		1	2	3	4	5
P-7	18	8.955556				
P-4	18		9.216667			
P-6	18			9.600000		
P-3	18			9.644444		
P-0	18			9.788889	9.788889	
P-1	18				9.844444	
P-2	18				9.933333	9.933333
P-5	18					10.050000
Sig.		1.000	1.000	.063	.156	.224

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .082.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Kadar_Air

Duncan^{a..b}

Bentuk	N	Subsct	
		1	2
Persegi_Panjang	48	9.506250	
Lingkaran	48	9.616667	9.616667
Persegi	48		9.764583
Sig.		.220	.101

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .193.

a. Uses Harmonic Mean Sample Size = 48.000.

b. Alpha = .05.

Post Hoc Test Kadar Air Kerupuk Putih Telur

Kdr_Air_Mentah

Duncan^a

Perlakuan	N	Subst for alpha = 0.05				
		1	2	3	4	5
P-7	6	9.1500				
P-4	6	9.2000	9.2000			
P-6	6	9.3667	9.3667			
P-3	6		9.5167	9.5167		
P-0	6			9.7000	9.7000	
P-2	6				9.9500	9.9500
P-1	6				9.9833	9.9833
P-5	6					10.0667
Sig.		.192	.058	.241	.089	.482

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Kdr_Air_Matang

Duncan^a

Perlakuan	N	Subst for alpha = 0.05		
		1	2	3
P-1	6	.5333		
P-0	6	.9917	.9917	
P-2	6	1.1167	1.1167	
P-3	6	1.4583	1.4583	1.4583
P-5	6		1.7167	1.7167
P-4	6		1.8583	1.8583
P-6	6		1.9000	1.9000
P-7	6			2.1917
Sig.		.062	.078	.148

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Post Hoc Test Kadar Lemak Kerupuk Putih Telur

Kdr_Lemak_Mentah

Duncan^a

Perlakuan	N	Subset for alpha = 0.05
		1
P-5	6	4.2667
P-6	6	4.4000
P-4	6	4.4167
P-3	6	4.5500
P-2	6	4.6000
P-0	6	5.0833
P-7	6	5.0833
P-1	6	5.3500
Sig.		.220

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Kdr_Lemak_Matang

Duncan^a

Perlakuan	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
P-7	6	28.6000					
P-5	6		32.0500				
P-6	6			37.4333			
P-3	6				43.5167		
P-4	6				44.2000	44.2000	
P-0	6				45.1667	45.1667	45.1667
P-2	6					47.0833	47.0833
P-1	6						48.2833
Sig.		1.000	1.000	1.000	.315	.080	.059

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Post Hoc Test Kadar Protein Kerupuk Putih Telur

Kdr_Protein_Mentah

Duncan^a

Perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
P-3	6	4.6691						
P-2	6	4.9707	4.9707					
P-4	6		5.0483					
P-1	6			6.1494				
P-0	6				7.6018			
P-6	6					8.4777		
P-5	6						10.2425	
P-7	6							13.0002
Sig.		.089	.656	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Kdr_Protein_Matang

Duncan^a

Perlakuan	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
P-2	6	3.3121					
P-1	6	3.4070					
P-3	6	3.4935					
P-4	6		4.1291				
P-0	6			5.2963			
P-6	6				6.5364		
P-5	6					8.5648	
P-7	6						11.2493
Sig.		.452	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 6. Analisis Data Statistik Karakteristik Sensoris Kerupuk Putih Telur

Kruskal-Wallis Test

Ranks

	Perakuan	N	Mean Rank
Warna	1	50	115.50
	2	50	173.50
	3	50	178.50
	4	50	203.50
	5	50	82.50
	6	50	149.50
	Total	300	
Tekstur	1	50	116.50
	2	50	143.50
	3	50	112.50
	4	50	157.50
	5	50	181.50
	6	50	191.50
	Total	300	
Rasa	1	50	103.50
	2	50	171.50
	3	50	155.50
	4	50	147.50
	5	50	136.50
	6	50	188.50
	Total	300	
Overall	1	50	115.50
	2	50	163.50
	3	50	144.50
	4	50	165.50
	5	50	123.50
	6	50	190.50
	Total	300	

Test Statistics^{a,b}

	Warna	Tekstur	Rasa	Overall
Chi-Square	68.151	36.495	29.551	27.228
df	5	5	5	5
Asymp. Sig.	.000	.000	.000	.000

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

Mann-Whitney Test Warna

Perlakuan 1 dan 2

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Warna 1	50	39.46	1973.00
Warna 2	50	61.54	3077.00
Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	698.000
Wilcoxon W	1973.000
Z	-3.876
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable: Perlakuan

Perlakuan 1 dan 3

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Warna 1	50	40.48	2024.00
Warna 3	50	60.52	3026.00
Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	749.000
Wilcoxon W	2024.000
Z	-3.514
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 4

		Ranks		
	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	1	50	36.93	1846.50
	4	50	64.07	3203.50
	Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	571.500
Wilcoxon W	1846.500
Z	-4.776
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	1	50	57.18	2859.00
	5	50	43.82	2191.00
	Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	916.000
Wilcoxon W	2191.000
Z	-2.402
Asymp. Sig. (2-tailed)	.018

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	1	50	43.45	2172.50
	6	50	57.55	2877.50
	Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	897.500
Wilcoxon W	2172.500
Z	-2.475
Asymp. Sig. (2-tailed)	.013

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 3

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Warna 2	50	47.97	2398.50
3	50	53.03	2651.50
Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	1123.500
Wilcoxon W	2398.500
Z	-.891
Asymp. Sig. (2-tailed)	.373

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 4

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Warna 2	50	43.62	2181.00
4	50	57.38	2859.00
Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	906.000
Wilcoxon W	2181.000
Z	-2.434
Asymp. Sig. (2-tailed)	.015

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	2	50	66.79	3339.50
	5	50	34.21	1710.50
	Total	100		

Test Statistics^a

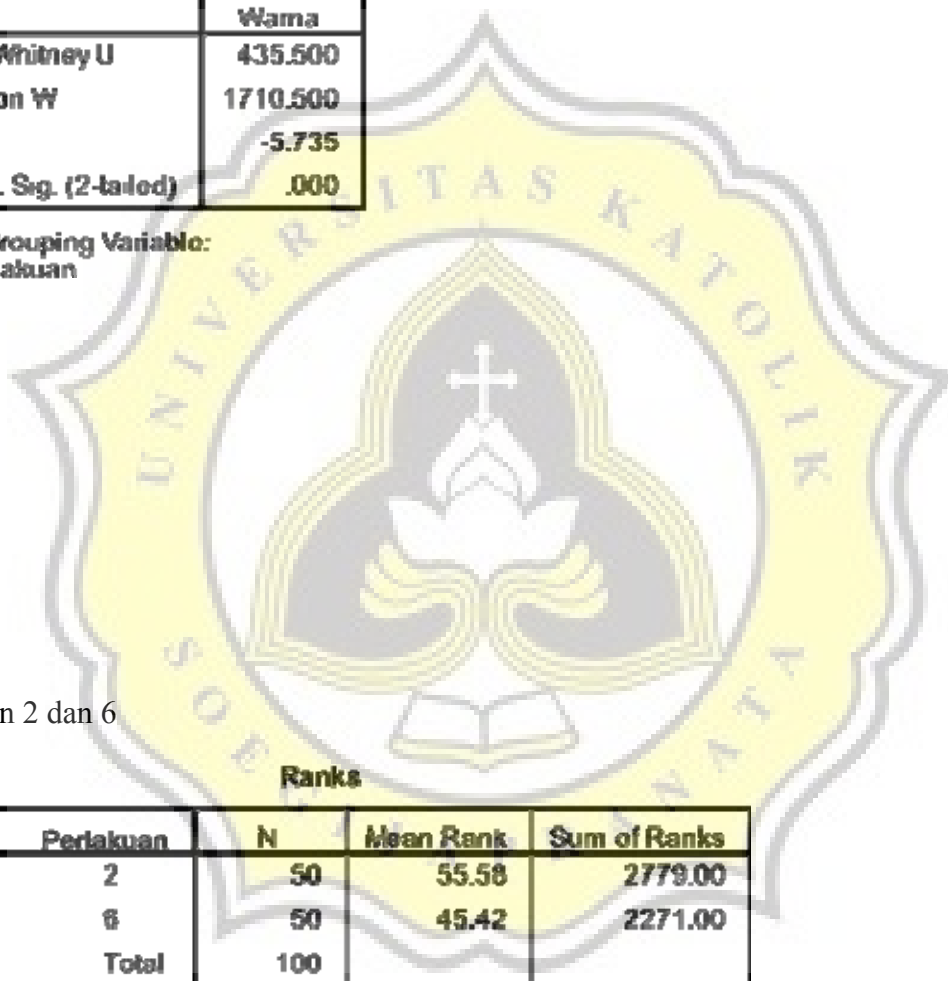
	Warna
Mann-Whitney U	435.500
Wilcoxon W	1710.500
Z	-5.735
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	2	50	55.58	2779.00
	6	50	45.42	2271.00
	Total	100		



Test Statistics^a

	Warna
Mann-Whitney U	996.000
Wilcoxon W	2271.000
Z	-1.807
Asymp. Sig. (2-tailed)	.071

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 4

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Warna 3	50	45.43	2271.50
Warna 4	50	55.57	2778.50
Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	996.500
Wilcoxon W	2271.500
Z	-1.800
Asymp. Sig. (2-tailed)	.072

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	3	50	65.08	3254.00
	5	50	35.92	1796.00
	Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	521.000
Wilcoxon W	1796.000
Z	-5.154
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	3	50	58.44	2822.00
	6	50	44.56	2228.00
	Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	953.000
Wilcoxon W	2228.000
Z	-2.085
Asymp. Sig. (2-tailed)	.037

a. Grouping Variable:
Perlakuan

Perlakuan 4 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Wama	4	50	67.89	3394.50
	5	50	33.11	1655.50
	Total	100		

Test Statistics^a

	Wama
Mann-Whitney U	380.500
Wilcoxon W	1655.500
Z	-6.145
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 4 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Wama	4	50	60.59	3029.50
	6	50	40.41	2020.50
	Total	100		

Test Statistics^a

	Wama
Mann-Whitney U	745.500
Wilcoxon W	2020.500
Z	-3.547
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 5 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	5	50	37.44	1872.00
	6	50	63.56	3178.00
	Total	100		

Test Statistics^a

	Warna
Mann-Whitney U	597.000
Wilcoxon W	1872.000
Z	-4.605
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Mann-Whitney Test Tekstur

Perlakuan 1 dan 2

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	1	50	45.84	2282.00
	2	50	55.36	2768.00
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	1007.000
Wilcoxon W	2282.000
Z	-1.705
Asymp. Sig. (2-tailed)	.088

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 3

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	1	50	51.78	2588.00
	3	50	49.24	2462.00
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	1187.000
Wilcoxon W	2462.000
Z	-.446
Asymp. Sig. (2-tailed)	.655

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 4

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	1	50	42.73	2136.50
	4	50	58.27	2913.50
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	861.500
Wilcoxon W	2136.500
Z	-2.728
Asymp. Sig. (2-tailed)	.006

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	1	50	40.18	2009.00
	5	50	60.82	3041.00
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	734.000
Wilcoxon W	2009.000
Z	-3.612
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	1	50	38.19	1909.50
	6	50	62.81	3140.50
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	634.500
Wilcoxon W	1909.500
Z	-4.310
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 3

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur 2	50	56.03	2801.50
3	50	44.97	2248.50
Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	973.500
Wilcoxon W	2248.500
Z	-1.945
Asymp. Sig. (2-tailed)	.052

a. Grouping Variable: Perlakuan

Perlakuan 2 dan 4

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur 2	50	48.10	2405.00
4	50	52.90	2645.00
Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	1130.000
Wilcoxon W	2405.000
Z	-.843
Asymp. Sig. (2-tailed)	.399

a. Grouping Variable: Perlakuan

Perlakuan 2 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	2	50	43.89	2194.50
	5	50	57.11	2855.50
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	919.500
Wilcoxon W	2194.500
Z	-2.313
Asymp. Sig. (2-tailed)	.021

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	2	50	42.12	2106.00
	6	50	58.88	2944.00
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	831.000
Wilcoxon W	2106.000
Z	-2.935
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 4

		Ranks		
	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	3	50	42.11	2105.50
	4	50	58.89	2944.50
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	830.500
Wilcoxon W	2105.500
Z	-2.941
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	3	50	39.97	1998.50
	5	50	61.03	3051.50
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	723.500
Wilcoxon W	1998.500
Z	-3.699
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	3	50	38.21	1910.50
	6	50	62.79	3139.50
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	635.500
Wilcoxon W	1910.500
Z	-4.306
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 4 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	4	50	45.66	2283.00
	5	50	55.34	2767.00
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	1008.000
Wilcoxon W	2283.000
Z	-1.697
Asymp. Sig. (2-tailed)	.090

a. Grouping Variable:
Perlakuan

Perlakuan 4 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur	4	50	43.78	2189.00
	6	50	57.22	2861.00
	Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	914.000
Wilcoxon W	2189.000
Z	-2.362
Asymp. Sig. (2-tailed)	.018

a. Grouping Variable:
Perlakuan

Perlakuan 5 dan 6

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Tekstur 5	50	49.20	2460.00
6	50	51.80	2590.00
Total	100		

Test Statistics^a

	Tekstur
Mann-Whitney U	1185.000
Wilcoxon W	2460.000
Z	-.459
Asymp. Sig. (2-tailed)	.646

a. Grouping Variable:
Perlakuan

Mann-Whitney Test Rasa

Perlakuan 1 dan 2

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	1	50	39.50	1975.00
	2	50	81.50	3075.00
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	700.000
Wilcoxon W	1975.000
Z	-3.859
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 3

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	1	50	40.83	2041.50
	3	50	60.17	3008.50
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	766.500
Wilcoxon W	2041.500
Z	-3.390
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 4

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	1	50	41.84	2082.00
	4	50	59.36	2968.00
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	807.000
Wilcoxon W	2082.000
Z	-3.116
Asymp. Sig. (2-tailed)	.002

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	1	50	48.74	2337.00
	5	50	54.26	2713.00
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	1062.000
Wilcoxon W	2337.000
Z	-1.333
Asymp. Sig. (2-tailed)	.183

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	1	50	36.79	1839.50
	6	50	64.21	3210.50
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	564.500
Wilcoxon W	1839.500
Z	-4.815
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 3

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	2	50	53.36	2668.00
	3	50	47.64	2382.00
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	1107.000
Wilcoxon W	2382.000
Z	-1.003
Asymp. Sig. (2-tailed)	.316

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 4

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	2	50	54.85	2742.50
	4	50	46.15	2307.50
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	1032.500
Wilcoxon W	2307.500
Z	-1.524
Asymp. Sig. (2-tailed)	.128

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	2	50	55.74	2787.00
	5	50	45.26	2263.00
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	988.000
Wilcoxon W	2263.000
Z	-1.839
Asymp. Sig. (2-tailed)	.066

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 6

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Rasa 2	50	48.05	2402.50
6	50	52.95	2647.50
Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	1127.500
Wilcoxon W	2402.500
Z	-.862
Asymp. Sig. (2-tailed)	.389

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 4

Ranks

Perlakuan	N	Mean Rank	Sum of Ranks
Rasa 3	50	52.31	2615.50
4	50	48.89	2434.50
Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	1159.500
Wilcoxon W	2434.500
Z	-.638
Asymp. Sig. (2-tailed)	.525

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 5

		Ranks		
Perlakuan		N	Mean Rank	Sum of Ranks
Rasa	3	50	53.39	2669.50
	5	50	47.61	2380.50
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	1105.500
Wilcoxon W	2380.500
Z	-1.015
Asymp. Sig. (2-tailed)	.310

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	3	50	43.99	2199.50
	6	50	57.01	2850.50
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	924.500
Wilcoxon W	2199.500
Z	-2.288
Asymp. Sig. (2-tailed)	.022

a. Grouping Variable:
Perlakuan

Perlakuan 4 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	4	50	52.65	2632.50
	5	50	48.35	2417.50
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	1142.500
Wilcoxon W	2417.500
Z	-.753
Asymp. Sig. (2-tailed)	.452

a. Grouping Variable:
Perlakuan

Perlakuan 4 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	4	50	42.65	2132.50
	6	50	58.35	2917.50
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	857.500
Wilcoxon W	2132.500
Z	-2.781
Asymp. Sig. (2-tailed)	.006

a. Grouping Variable:
Perlakuan

Perlakuan 5 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Rasa	5	50	43.02	2151.00
	6	50	57.98	2899.00
	Total	100		

Test Statistics^a

	Rasa
Mann-Whitney U	876.000
Wilcoxon W	2151.000
Z	-2.624
Asymp. Sig. (2-tailed)	.009

a. Grouping Variable:
Perlakuan

Mann-Whitney Test Overall

Perlakuan 1 dan 2

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	1	50	42.02	2101.00
	2	50	58.98	2949.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	826.000
Wilcoxon W	2101.000
Z	-2.975
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 3

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	1	50	44.90	2245.00
	3	50	56.10	2805.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	970.000
Wilcoxon W	2245.000
Z	-1.965
Asymp. Sig. (2-tailed)	.049

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 4

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	1	50	42.04	2102.00
	4	50	56.96	2948.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	827.000
Wilcoxon W	2102.000
Z	-2.960
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	1	50	49.54	2477.00
	5	50	51.46	2573.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	1202.000
Wilcoxon W	2477.000
Z	-.342
Asymp. Sig. (2-tailed)	.732

a. Grouping Variable:
Perlakuan

Perlakuan 1 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	1	50	39.00	1950.00
	6	50	62.00	3100.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	675.000
Wilcoxon W	1950.000
Z	-4.027
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 3

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	2	50	54.60	2730.00
	3	50	46.40	2320.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	1045.000
Wilcoxon W	2320.000
Z	-.1439
Asymp. Sig. (2-tailed)	.150

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 4

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	2	50	50.08	2503.00
	4	50	50.94	2547.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	1228.000
Wilcoxon W	2503.000
Z	-.155
Asymp. Sig. (2-tailed)	.877

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	2	50	56.72	2836.00
	5	50	44.28	2214.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	939.000
Wilcoxon W	2214.000
Z	-2.184
Asymp. Sig. (2-tailed)	.029

a. Grouping Variable:
Perlakuan

Perlakuan 2 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	2	50	45.14	2257.00
	6	50	55.86	2793.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	982.000
Wilcoxon W	2257.000
Z	-1.884
Asymp. Sig. (2-tailed)	.060

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 4

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	3	50	46.82	2331.00
	4	50	54.38	2719.00
	Total	100		

Test Statistics ^a	
	Overall
Mann-Whitney U	1056.000
Wilcoxon W	2331.000
Z	-1.362
Asymp. Sig. (2-tailed)	.173

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 5

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	3	50	54.76	2738.00
	5	50	46.24	2312.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	1037.000
Wilcoxon W	2312.000
Z	-1.493
Asymp. Sig. (2-tailed)	.135

a. Grouping Variable:
Perlakuan

Perlakuan 3 dan 6

		Ranks		
	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	3	50	42.62	2131.00
	6	50	58.38	2919.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	856.000
Wilcoxon W	2131.000
Z	-2.771
Asymp. Sig. (2-tailed)	.006

a. Grouping Variable:
Perlakuan

Perlakuan 4 dan 5

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	4	50	57.42	2871.00
	5	50	43.58	2179.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	904.000
Wilcoxon W	2179.000
Z	-2.423
Asymp. Sig. (2-tailed)	.015

a. Grouping Variable:
Perlakuan

Perlakuan 4 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	4	50	45.80	2290.00
	6	50	55.20	2760.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	1015.000
Wilcoxon W	2290.000
Z	-1.653
Asymp. Sig. (2-tailed)	.098

a. Grouping Variable:
Perlakuan

Perlakuan 5 dan 6

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
Overall	5	50	39.94	1997.00
	6	50	61.06	3053.00
	Total	100		

Test Statistics^a

	Overall
Mann-Whitney U	722.000
Wilcoxon W	1997.000
Z	-3.701
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
Perlakuan

Lampiran 7. Worksheet Uji Ranking Hedonik Kerupuk Putih Telur

WORKSHEET UJI RANKING HEDONIK

Tanggal Uji : 1 Februari 2010
Jenis Sampel : Kerupuk Putih Telur

Identifikasi Sampel

Kerupuk Putih Telur dengan tepung tapioka-terigu (3:1)
Kerupuk Putih Telur dengan tepung sagu
Kerupuk Putih Telur dengan tepung tapioka-sagu (1:1)
Kerupuk Putih Telur dengan tepung tapioka-sagu (1:2)

Kode

A
B
C
D

Kerupuk Putih Telur dengan tepung terigu-sagu (1:1) E
Kerupuk Putih Telur dengan tepung terigu-sagu (1:2) F

Kode Kombinasi urutan penyajian

ABCDEF = 1
ABCDFE = 2
ABCFDE = 3
ABFCDE = 4

Penyajian

Booth	Panelis	Kode sampel ^{urutan penyajian}
I	# 1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49	975 973 235 811 761 262 ¹
II	# 2, 6, 10, 14, 18, 22, 26, 30, 34, 38, 42, 46, 50	257 752 667 227 813 488 ²
III	# 3, 7, 11, 15, 19, 23, 27, 31, 35, 39, 43, 47	723 395 174 453 276 732 ³
IV	# 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48	448 524 951 982 455 999 ⁴

Rekap Kode Sampel

Sampel A	975 257 723 448
Sampel B	973 752 395 524
Sampel C	235 667 174 982
Sampel D	811 227 276 455
Sampel E	761 488 732 999
Sampel F	262 813 453 951

Lampiran 8. *Scoresheet* Kerupuk Putih Telur

UJI RANKING HEDONIK

Nama :

Tanggal :

Produk : Kerupuk Putih Telur

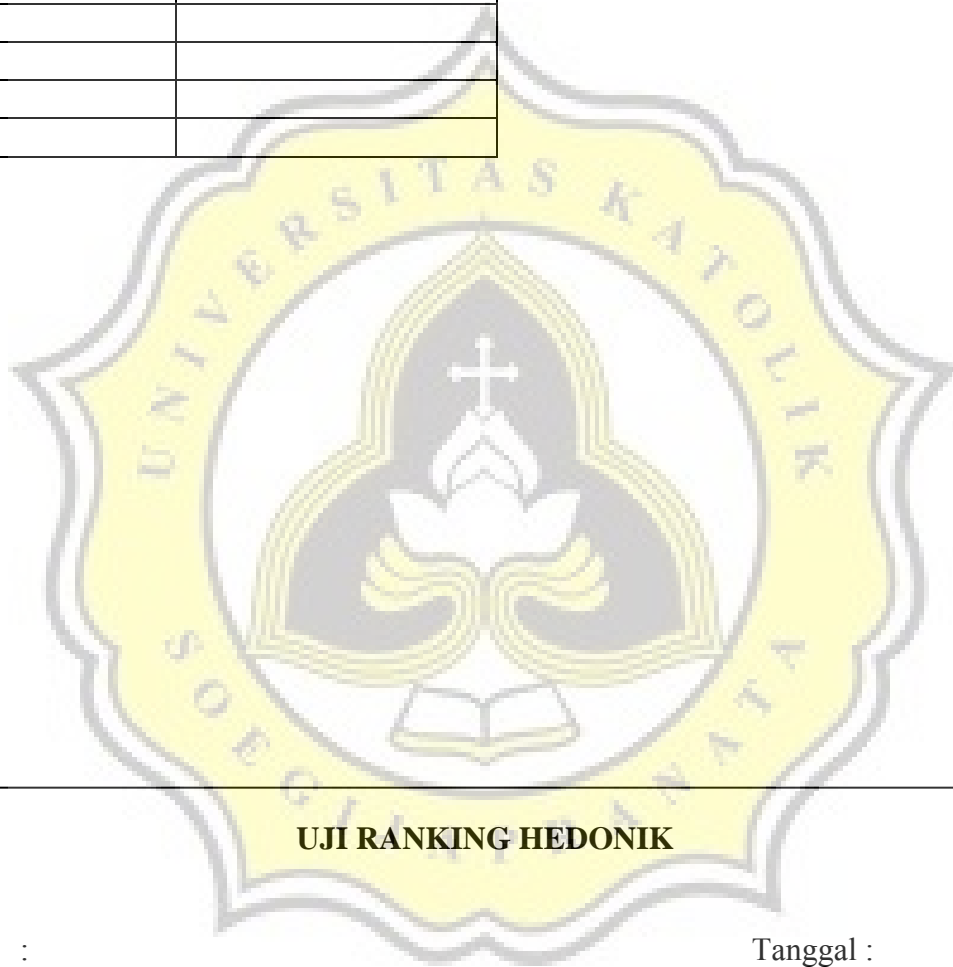
Atribut : Warna

Instruksi :

Dihadapan Anda terdapat 6 sampel kerupuk putih telur. Lihatlah warna sampel secara

keseluruhan, baik kecerahan maupun spesifikasi lainnya, dari kiri ke kanan secara urut. Setelah melihat semua sampel, Anda boleh mengulang sebanyak yang Anda perlukan. Urutkan sampel dari yang kurang Anda sukai (=1) hingga yang paling Anda sukai (=6) yaitu dengan menuliskan kode sampel dan ranking di dalam tabel yang tersedia. Ranking dari tiap sampel tidak boleh sama. Terima kasih.

Kode Sampel	Ranking



UJI RANKING HEDONIK

Nama :

Tanggal :

Produk : Kerupuk Putih Telur

Atribut : Tekstur (Kerenyahan)

Instruksi :

Dihadapan Anda terdapat 6 sampel kerupuk putih telur. Cicipi sampel secara berurutan dari kiri ke kanan, rasakan kerenyahan masing-masing sampel. Setelah mencicipi semua sampel,

Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang kurang renyah (=1) hingga yang paling renyah menurut Anda (=6) yaitu dengan menuliskan kode sampel dan ranking di dalam tabel yang tersedia. Ranking dari tiap sampel tidak boleh sama. Terima kasih.

Kode Sampel	Ranking



UJI RANKING HEDONIK

Nama :

Tanggal :

Produk : Kerupuk Putih Telur

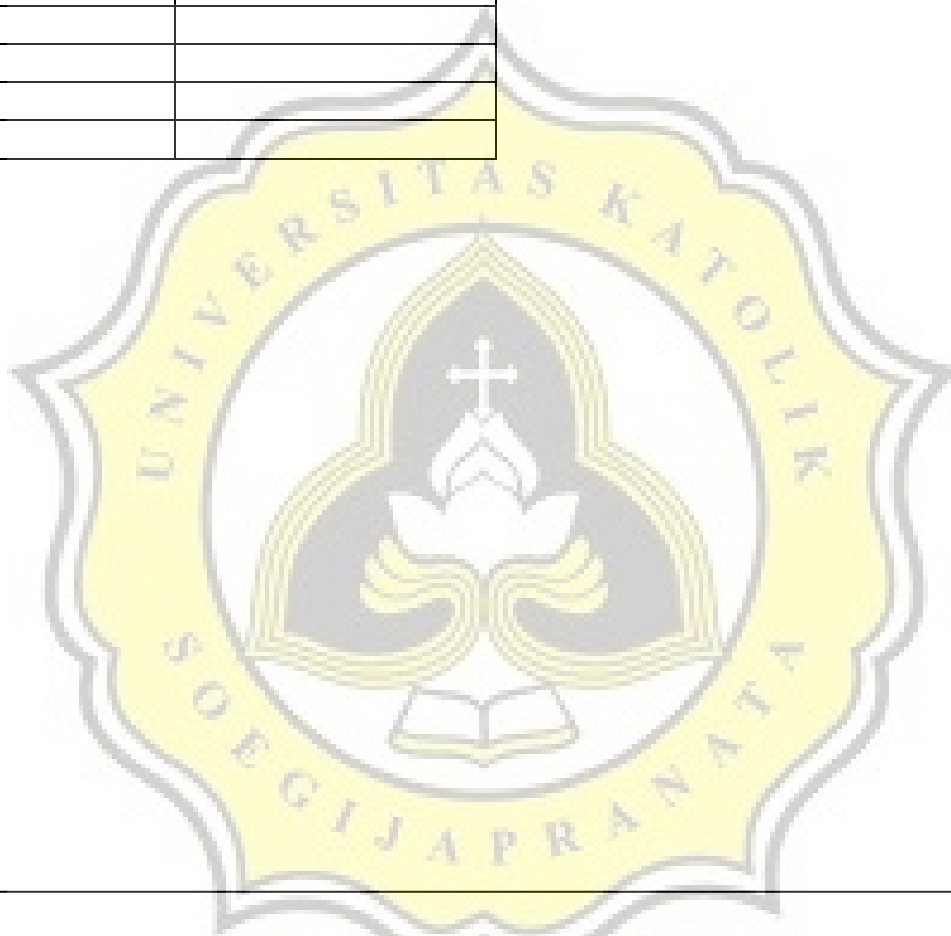
Atribut : Rasa

Instruksi :

Berkumur-kumurlah dulu sebelum menguji sampel.

Dihadapan Anda terdapat 6 sampel kerupuk putih telur. Cicipi sampel secara berurutan dari kiri ke kanan, rasakan masing-masing. Setelah mencicipi semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang kurang Anda sukai (=1) hingga yang paling Anda sukai (=6) yaitu dengan menuliskan kode sampel dan ranking di dalam tabel yang tersedia. Ranking dari tiap sampel tidak boleh sama. Terima kasih.

Kode Sampel	Ranking



UJI RANKING HEDONIK

Nama :

Tanggal :

Produk : Kerupuk Putih Telur

Atribut : *Overall*

Instruksi :

Dihadapan Anda terdapat 6 sampel kerupuk putih telur. Dari keseluruhan sifat kerupuk (warna, rasa, kerenyahan) urutkan sampel yang Anda sukai. Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang kurang Anda sukai (=1) hingga yang paling Anda sukai (=6) yaitu dengan menuliskan kode sampel dan ranking di dalam tabel yang tersedia. Ranking dari tiap sampel tidak boleh sama. Terima kasih.

Kode Sampel	Ranking

