

Lampiran 16

Uji Normalitas Variabel Y

Fi	n	Kp	Zi	Ztabel	a1	a2
45	1	0.0119	-2.0918	0.01823	-0.542	-0.0063
47	1	0.02381	-1.8129	0.03493	-0.5706	-0.0111
48	2	0.04762	-1.6068	0.05405	-0.5835	-0.0064
50	2	0.07143	-1.3651	0.08612	-0.6124	-0.0147
51	6	0.14286	-1.1889	0.11723	-0.5872	0.02563
53	1	0.15476	-0.9369	0.1744	-0.6539	-0.0196
54	3	0.19048	-0.8942	0.18559	-0.6331	0.00488
55	4	0.2381	-0.6705	0.25127	-0.6702	-0.0132
56	4	0.28571	-0.6046	0.27274	-0.6497	0.01298
57	4	0.33333	-0.4106	0.34067	-0.6866	-0.0073
58	4	0.38095	-0.347	0.3643	-0.668	0.01666
59	6	0.45238	-0.0762	0.46963	-0.725	-0.0172
60	2	0.47619	-0.0203	0.49192	-0.7283	-0.0157
61	6	0.54762	0.17155	0.5681	-0.7494	-0.0205
62	5	0.60714	0.26682	0.60519	-0.7351	0.00195
63	3	0.64286	0.44811	0.67296	-0.7826	-0.0301
64	3	0.67857	0.49003	0.68794	-0.7655	-0.0094
65	5	0.7381	0.73698	0.76943	-0.8085	-0.0313
66	2	0.7619	0.83064	0.79691	-0.8202	-0.035
67	4	0.80952	1.0435	0.85164	-0.8455	-0.0421
68	2	0.83333	1.07872	0.85964	-0.8327	-0.0263
69	5	0.89286	1.2882	0.90116	-0.8326	-0.0083
70	1	0.90476	1.36551	0.91395	-0.8401	-0.0092
71	3	0.94048	1.55317	0.93981	-0.8462	0.00067
72	1	0.95238	1.63684	0.94917	-0.8508	0.00321
73	2	0.97619	1.86952	0.96922	-0.8669	0.00697
74	1	0.9881	1.95654	0.9748	-0.868	0.0133
75	1	1	2.02739	0.97869	-0.8661	0.02131
SD	7.171					
M	60					

D-hitung(Do)=0.025626

D-tabel =0.14839

Uji Normalitas Variabel X1

Fi	n	Kp	Zi	Ztabel	a1	a2
36	1	0.0119	-2.5931	0.00476	-0.4188	0.00715
38	1	0.02381	-2.3181	0.01022	-0.443	0.01359
41	1	0.03571	-2.0563	0.01988	-0.4698	0.01584
42	2	0.05952	-1.9132	0.02786	-0.4699	0.03167
44	2	0.08333	-1.7053	0.04407	-0.4854	0.03927
45	1	0.09524	-1.6163	0.05302	-0.4924	0.04222
48	4	0.14286	-1.3059	0.0958	-0.522	0.04706
49	1	0.15476	-1.201	0.11488	-0.5409	0.03988
50	1	0.16667	-1.0502	0.14681	-0.5777	0.01986
52	2	0.19048	-0.8878	0.18732	-0.6124	0.00315
53	2	0.21429	-0.7614	0.22321	-0.6386	-0.0089
54	5	0.27381	-0.6825	0.24745	-0.612	0.02636
55	1	0.28571	-0.5184	0.30209	-0.673	-0.0164
56	2	0.30952	-0.4449	0.32819	-0.6835	-0.0187
57	5	0.36905	-0.302	0.38132	-0.693	-0.0123
58	4	0.41667	-0.2329	0.40791	-0.6796	0.00876
59	2	0.44048	-0.0582	0.47681	-0.7442	-0.0363
60	2	0.46429	-0.0348	0.48611	-0.7322	-0.0218
61	5	0.52381	0.15546	0.56177	-0.7695	-0.038
62	2	0.54762	0.17764	0.5705	-0.7569	-0.0229
63	3	0.58333	0.3241	0.62707	-0.7941	-0.0437
64	2	0.60714	0.41109	0.6595	-0.8123	-0.0524
65	4	0.65476	0.56438	0.71375	-0.836	-0.059
66	3	0.69048	0.64966	0.74204	-0.8381	-0.0516
67	3	0.72619	0.79781	0.78751	-0.8643	-0.0613
68	6	0.79762	0.81555	0.79262	-0.8	0.005
69	1	0.80952	0.99078	0.8391	-0.854	-0.0296
70	5	0.86905	1.03026	0.84856	-0.8083	0.02049
71	2	0.89286	1.21609	0.88802	-0.8447	0.00483
72	3	0.92857	1.28157	0.9	-0.8282	0.02857
73	1	0.94048	1.43335	0.92412	-0.8573	0.01636
75	1	0.95238	1.64915	0.95044	-0.8957	0.00194
77	2	1	1.77334	0.96191	-0.8734	0.03809
SD	9.339					
M	60					

D-hitung(Do)=0.039267

D-tabel =0.14839

Uji Normalitas Variabel X2

Fi	n	Kp	Zi	Ztabel	a1	a2
47	2	0.02381	-2.1387	0.01623	-0.5519	0.00758
48	1	0.03571	-1.9859	0.02352	-0.5592	0.01219
49	2	0.05952	-1.7948	0.03635	-0.5631	0.02318
50	2	0.08333	-1.6963	0.04492	-0.5556	0.03841
51	3	0.11905	-1.4876	0.06843	-0.5596	0.05062
52	2	0.14286	-1.3624	0.08654	-0.5637	0.05632
53	1	0.15476	-1.1708	0.12085	-0.601	0.03391
55	2	0.17857	-0.9722	0.16547	-0.6373	0.0131
56	1	0.19048	-0.8374	0.20117	-0.6716	-0.0107
57	5	0.25	-0.658	0.25528	-0.6802	-0.0053
58	5	0.30952	-0.4382	0.33062	-0.7131	-0.0211
59	3	0.34524	-0.3527	0.36215	-0.7156	-0.0169
60	7	0.42857	-0.0773	0.4692	-0.7608	-0.0406
61	5	0.4881	-0.074	0.4705	-0.7028	0.01759
62	4	0.53571	0.17631	0.56997	-0.7742	-0.0343
63	5	0.59524	0.29049	0.61428	-0.7679	-0.019
64	9	0.70238	0.50978	0.6949	-0.7584	0.00748
65	4	0.75	0.55103	0.70919	-0.7283	0.04081
66	5	0.80952	0.8259	0.79557	-0.7766	0.01396
67	3	0.84524	0.86579	0.8067	-0.7551	0.03854
68	2	0.86905	1.09234	0.86266	-0.8049	0.00639
69	1	0.88095	1.28142	0.89998	-0.8451	-0.019
70	4	0.92857	1.31121	0.90511	-0.8049	0.02346
71	2	0.95238	1.53111	0.93713	-0.8303	0.01525
73	1	0.96429	1.77129	0.96174	-0.8617	0.00254
74	3	1	1.91946	0.97254	-0.8483	0.02746
SD	6.546					
M	61					

D-hitung(Do)=0.056317

D-tabel =0.14839

Uji Normalitas Variabel X3

Fi	n	Kp	Zi	Ztabel	a1	a2
45	1	0.0119	-2.1405	0.01616	-0.54	-0.0043
49	1	0.02381	-1.6369	0.05083	-0.6104	-0.027
51	2	0.04762	-1.3613	0.08671	-0.6485	-0.0391
52	2	0.07143	-1.281	0.10009	-0.6456	-0.0287
53	4	0.11905	-1.0918	0.13745	-0.6533	-0.0184
54	2	0.14286	-1.0422	0.14866	-0.6454	-0.0058
55	2	0.16667	-0.8255	0.20455	-0.6979	-0.0379
56	5	0.22619	-0.7828	0.21688	-0.6548	0.00931
57	2	0.25	-0.587	0.27859	-0.7112	-0.0286
58	2	0.27381	-0.471	0.31881	-0.7386	-0.045
59	10	0.39286	-0.3266	0.37199	-0.6864	0.02086
60	7	0.47619	-0.2869	0.3871	-0.6219	0.08909
61	4	0.52381	-0.101	0.45978	-0.6645	0.06403
62	3	0.55952	-0.0628	0.47496	-0.6476	0.08457
63	8	0.65476	0.17175	0.56818	-0.6678	0.08658
64	2	0.67857	0.19395	0.57689	-0.6548	0.10168
65	6	0.75	0.38176	0.64868	-0.6729	0.10132
66	1	0.7619	0.46899	0.68046	-0.701	0.08144
67	1	0.77381	0.66819	0.74799	-0.7755	0.02582
68	2	0.79762	0.72363	0.76535	-0.7742	0.03227
70	7	0.88095	1.06705	0.85703	-0.8151	0.02393
71	1	0.89286	1.07411	0.85861	-0.8054	0.03424
72	1	0.90476	1.31721	0.90612	-0.864	-0.0014
75	1	0.91667	1.57972	0.94291	-0.9137	-0.0262
79	2	0.94048	2.0823	0.98134	-0.9758	-0.0409
80	1	0.95238	2.29193	0.98905	-0.9915	-0.0367
82	4	1	2.47928	0.99342	-0.9659	0.00658
SD	7.942					
M	62					

D-hitung(Do)=0.10168

D-tabel =0.14839

Langkah- langkah pengerjaan Uji Normalitas Y

- 1) F_i : merupakan jawaban responden (data sebaran angket yang telah diintervalkan dan telah diurutkan dari nilai terkecil sampai nilai terbesar).
- 2) n : merupakan banyaknya / jumlah responden yang menjawab jumlah data sebaran angket yang telah diintervalkan.

- 3) K_p : merupakan kumulatif proposional

Dicari dengan rumus $\frac{n}{\text{sampel}}$

$$F_i 36 = \frac{1}{84} = 0,0119$$

$$F_i 38 = \frac{n_i + n_2}{\text{sampel}} = \frac{1+1}{84} = \frac{2}{84} = 0,02381$$

Dengan langkah-langkah yang sama untuk menghitung skala interval pada butir pertanyaan F_i dst.

- 4) $Z_i = \frac{F_i - M}{SD} = \frac{36 - 60}{9,339} = - 2,5931$

Untuk selanjutnya menggunakan langkah yang sama.

- 5) Z table : dilihat di table distribusi komulatif Z

- a. Contoh $Z_i = -3,3802 \rightarrow Z = -3,3$ peluangnya 8
- b. Untuk selanjutnya menggunakan langkah yang sama

- 6) Mencari a_2 dengan menggunakan rumus:

$$\begin{aligned} a_2 &= K_p - Z \text{ table} \\ &= 0,0119 - 0,00476 \\ &= 0,00715 \end{aligned}$$

Untuk selanjutnya menggunakan langkah yang sama.

- 7) Mencari a_1 dengan menggunakan rumus:

$$a_1 = \frac{a_2 - f_i}{\text{sampel}} = \frac{0,00715 - 36}{84} = -0,4188$$

Untuk selanjutnya menggunakan langkah yang sama.

- 8) Mencari D tabel : dilihat ditabel daftar nilai kritis untuk Uji Lilliefors (Buku Kadir hal 108), karena ukuran sampel 84 yang berarrti nilai n (sampel) > 100 dan taraf nyata yang digunakan 0,05 jadi perhitungannya :

$$\frac{1,360}{\sqrt{n}} = \frac{1,360}{\sqrt{84}} = \frac{1,360}{9,1652} = 0,14839$$

9) Mencari M menggunakan rumus

$$M = \frac{\sum f_i x_i}{n}$$

$$\begin{aligned} &= (36 \times 1) + (38 \times 1) + (41 \times 1) + (42 \times 2) + (44 \times 2) + (45 \times 1) + (48 \times 4) + (49 \times 1) + \\ &\quad (50 \times 1) + (52 \times 2) + (53 \times 2) + (54 \times 5) + (55 \times 1) + (56 \times 2) + (57 \times 5) + (58 \times 4) + \\ &\quad (59 \times 2) + (60 \times 2) + (61 \times 5) + (62 \times 2) + (63 \times 3) + (64 \times 2) + (65 \times 4) + (66 \times 3) + \\ &\quad (67 \times 3) + (68 \times 6) + (69 \times 1) + (70 \times 5) + (71 \times 2) + (72 \times 3) + (73 \times 1) + (75 \times 1) + (77 \times 2) \\ &= 573 + 1214 + 1442 + 1688 \\ &= 4917 : 84 \\ &= 60 \end{aligned}$$

10) Mencari Standar Deviasi menggunakan rumus

$$s = \frac{\sqrt{\sum f_i x_i^2 - (\sum f_i x_i)^2 / n}}{n - 1}$$

$$\begin{aligned} s &= \frac{\sqrt{1039831 - (4917)^2 / 84}}{84 - 1} \\ &= 9,339 \end{aligned}$$

Tabel Perhitungan Standar Deviasi

Xi	fi	xi ²	fixi	fixi ²
36	1	1296	36	1296
38	1	1444	38	1444
41	1	1681	41	1681
42	2	1764	84	7056
44	2	1936	88	7744
45	1	2025	45	2025
48	4	2304	192	36864
49	1	2401	49	2401
50	1	2500	50	2500
52	2	2704	104	10816
53	2	2809	106	11236
54	5	2916	270	72900
55	1	3025	55	3025
56	2	3136	112	12544
57	5	3249	285	81225
58	4	3364	232	53824
59	2	3481	118	13924
60	2	3600	120	14400
61	5	3721	305	93025
62	2	3844	124	15376

63	3	3969	189	35721
64	2	4096	128	16384
65	4	4225	260	67600
66	3	4356	198	39204
67	3	4489	201	40401
68	6	4624	408	166464
69	1	4761	69	4761
70	5	4900	350	122500
71	2	5041	142	20164
72	3	5184	216	46656
73	1	5329	73	5329
75	1	5625	75	5625
77	2	5929	154	23716
JUMLAH	84	-	4917	1039831