HASIL VALIDITAS DAN RELIABILITAS

1. PROFESIONALITAS GURU

Reliability

Case Processing Summary

		N	%
Cases	Valid	25	100.0
	Excluded (a)	0	.0
	Total	25	100.0

a Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's Alpha	N of Items
.973	38

Item Statistica

	Mean	Std. Deviation	N
Item 1	2,30	.657	25
Item 2	2,30	.657	25
Item 3	2,40	.503	25
Item 4	2,40	.598	25
Item 5	2,30	.733	25
Item 6	2,50	.513	25
Item 7	2,50	.513	25
Item 8	2,25	.550	25
Item 9	2,35	.587	25
Item 10	2,45	.510	25
Item 11	2,25	.639	25
Item 12	2,35	.489	25
Item 13	2,20	.523	25
Item 14	2,20	.616	25
Item 15	2,30	.470	25
Item 16	2,30	.657	25
Item 17	2,40	.754	25
Item 18	2,25	.550	25
Item 19	2,20	.523	25
Item 20	2,25	.550	25
Item 21	2,25	.550	25

Item 22	2,35	.587	25
Item 23	2,45	.510	25
Item 24	2,35	.48	25
Item 25	2,20	.696	25
Item 26	2,30	.571	25
Item 27	2,30	.733	25
Item 28	2,25	.639	25
Item 29	2,35	.587	25
Item 30	2,35	.489	25
Item 31	2,40	.503	25
Item 32	2,45	.510	25
Item 33	2,45	.605	25
Item 34	2,55	.510	25
Item 35	2,55	.510	25
Item 36	2,55	.510	25
Item 37	2,45	.510	25
Item 38	2,40	.598	25

Item-Total Statistica

	Scale Mean If Item Deleted	Scale Variance If Item Deleted	Corrected Item-Total Correlation	Cronbech's Alpha If Item Deleted
Item 1	87.10	224.516	.745	.972
Item 2	87.10	224.411	.852	.972
Item 3	87.00	227.263	.931	.972
Item 4	87.00	227.474	.764	.972
Item 5	87.10	224.095	.774	.972
Item 6	86.90	233.253	.514	.973
Item 7	86.90	228.726	.814	.972
Item 8	87.15	228.134	.793	.972
Item 9	87.05	230.787	.588	.973
Item 10	86.95	230.261	.717	.973
Item 11	87.15	229.503	.605	.973
Item 12	87.05	231.313	.676	.973
Item 13	87.20	229.747	.731	.973
Item 14	87.20	230.274	.587	.973
Item 15	87.10	231.568	.687	.973
Item 16	87.10	231.463	.487	.974
Item 17	87.00	227.368	.602	.973
Item 18	87.15	233.818	.446	.974
Item 19	87.20	232.800	.535	.973
Item 20	87.15	230.450	.651	.973
Item 21	87.15	230.555	.644	.973

Item 22	87.05	229.524	.661	.973
Item 23	86.95	232.261	.585	.973
Item 24	87.05	231.313	.676	.973
Item 25	87.20	225.011	.772	.972
Item 26	87.10	226.937	.834	.972
Item 27	87.10	225.253	.720	.973
Item 28	87.15	227.187	.729	.973
Item 29	87.05	227.629	.770	.972
Item 30	87.05	230.261	.749	.973
Item 31	87.00	230.842	.689	.973
Item 32	86.95	231.313	.647	.973
Item 33	86.95	227.524	.753	.972
Item 34	86.85	229.187	.788	.972
Item 35	86.85	229.187	.788	.972
Item 36	86.85	230.871	.676	.973
Item 37	86.95	230.050	.730	.973
Item 38	87.00	228.842	.686	.973

Scale Statistica

Mean	Variance	Std. Deviation	N of Items
89.40	241.621	15.544	38

CONTOH PERHITUNGAN SECARA MANUAL DALAM UJI VALIDITAS

(Pada Item ke-1):

No. Responden	X	Y	XY	X2	Y2
1	3	105	315	9	11025
2	2	87	174	4	7569
3	3	98	294	9	9604
4	2	76	152	4	5776
5	2	85	170	4	7225
6	3	110	330	9	12100
7	2	84	168	4	7056
8	2	77	154	4	5929
9	1	86	86	1	7396
10	2	79	158	4	6241
11	3	103	309	9	10609
12	3	81	243	9	6561
13	3	109	327	9	11881
14	1	72	72	1	5184

15	2	85	170	4	7225
16	3	104	312	9	10816
17	2	78	156	4	6084
18	2	80	160	4	6400
19	3	90	270	9	8100
20	2	84	168	4	7056
10	2	79	158	4	6241
11	3	103	309	9	10609
12	3	81	243	9	6561
13	3	109	327	9	11881
14	1	72	72	1	5184
JUMLAH	46	1773	4188	114	159837

Dari tabel di atas, diketahui:

N = 20 (banyaknya responden), $\sum X = 46$, $\sum Y = 1773$, $\sum XY = 4188$ $\sum X^2 = 114$, dan $\sum Y^2 = 15987$. Angka-angka tersebut kemudian dimasukkan ke dalam rumus koefisien Karl Pearson, dan diperoleh sebagai berikut:

$$r_{xy} = \frac{N\sum XY - \sum X \sum Y}{\sqrt{(N\sum X^2 - (\sum X)^2)(N\sum Y^2 - (\sum Y)^2)}}$$

$$r_{xy} = \frac{25x4188 - 46x1773}{\sqrt{(20x114 - (46)^2)(20x1159837 - (1773)^2)}} = \frac{83760 - 81558}{\sqrt{(2280 - 2116)(3196740 - 3143529)}}$$

$$r_{xy} = \frac{2202}{\sqrt{164x53211}} = \frac{2202}{\sqrt{8726604}} = \frac{2202}{2954.082599} = 0.745$$

Besarnya korelasi dalam uji validitas item ke-1 tersebut adalah 0,745. Kemudian dibandingkan dengan nilai r tabel dengan besarnya nilai r_{tabel} yaitu 0,444. Maka nilai r hitung lebih besar daripada nilai r tabel yaitu 0,745 > 0,44, artinya item ke-1 tersebut valid.

Item statistica			
	Mean	Std. Deviation	N
Item 1	2,35	.587	25
Item 2	2,35	.587	25
Item 3	2,45	.510	25
Item 4	2,35	.48	25
Item 5	2,20	.696	25
Item 6	2,30	.571	25
Item 7	2,30	.733	25
Item 8	2,25	.639	25
Item 9	2,35	.587	25
Item 10	2,35	.489	25
Item 11	2.35	.587	25
Item 12	2.35	.587	25
Item 13	2.50	.607	25
Item 11	2.35	.587	25
Item 12	2.35	.587	25
Item 13	2.50	.607	25
Item 14	2.50	.607	25
Item 15	2.30	.571	25
Item 16	2.45	.510	25
Item 17	2.40	.598	25
Item 18	2.35	.587	25
Item 19	2.40	.503	25
Item 20	2.35	.671	25
Item 21	2.30	.571	25
Item 22	2,40	.598	25
Item 24	2,35	.587	25
Item 23	2,45	.510	25
Item 24	2,35	.587	25
Item 25	2,40	.598	25
Item 26	2,50	.513	25
Item 27	2,50	.513	25
Item 28	2,40	.598	25
Item 29	2,20	.616	25
Item 30	2,30	.657	25
Item 31	2,35	.587	25
Item 32	2,30	.733	25
Item 33	2,40	.503	25

Item-Total Statistica

	Scale Mean If Item Deleted	Scale Variance If Item Deleted	Corrected Item-Total Correlation	Cronbech's Alpha If Item Deleted
Item 1	75,95	197,945	.819	.971
Item 2	76,10	197,463	.778	.971
Item 3	75,85	199,608	.859	.971

Item 4	75,95	200,366	.805	.971
Item 5	75,95	200,787	.775	.971
Item 6	76,05	195,945	.755	.971
Item 7	76,10	198,095	.742	.971
Item 8	76,10	199,674	.759	.971
Item 9	76,10	197,147	.795	.971
Item 10	75,90	200,200	.812	.971
Item 11	76,20	200,274	.584	.972
Item 12	75,95	199,524	.724	.971
Item 13	76,05	195,208	.885	.970
Item 14	76,15	198,029	.680	.972
Item 15	75,95	196,366	.801	.971
Item 16	76,00	198,737	.780	.971
Item 17	76,05	198,261	.717	.971
Item 18	76,15	198,555	.738	.971
Item 19	76,15	201,924	.482	.973
Item 20	76,00	201,789	.715	.971
Item 21	75,90	200,726	.775	.971
Item 22	75,95	202,997	.618	.972
Item 23	75,95	203,734	.567	.972
Item 24	76,05	204,471	.443	.973
Item 25	76,00	197,895	.832	.971
Item 26	75,90	200,726	.775	.971
Item 27	75,90	204,305	.524	.972
Item 28	76,00	200,421	.677	.971
Item 29	76,20	205,011	.389	.973
Item 30	76,10	198,726	.707	.971
Item 31	76,05	203,839	.481	.972
Item 32	76,10	193,253	.906	.970
Item 33	76,00	200,000	.844	.971

Scale Statistica

Mean	Variance	Std. Deviation	N of Items
78.40	212.253	14.569	33

3. PEMBELAJARAN EFEKTIF

Reliability

Case Processing Summary

		N	%
Cases	Valid	25	100.0
	Excluded (a)	0	.0
	Total	25	100.0

a Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's Alpha	N of Items
.968	30

Item Statistica

	Mean	Std. Deviation	N
Item 1	2,30	.571	25
Item 2	2,40	.598	25
Item 3	2,40	.503	25
Item 4	2.35	.489	25
Item 5	2.35	5.87	25
Item 6	2.30	.657	25
Item 7	2.30	.657	25
Item 8	2.40	.598	25
Item 9	2.25	.639	25
Item 10	2.30	.571	25
Item 11	2.35	.587	25
Item 12	2.35	.587	25
Item 13	2.50	.607	25
Item 14	2.50	.607	25
Item 15	2.30	.571	25
Item 16	2.45	.510	25
Item 17	2.40	.598	25
Item 18	2.35	.587	25
Item 19	2.40	.503	25
Item 20	2.35	.671	25
Item 21	2.30	.571	25
Item 22	2.50	.607	25
Item 23	2.30	.571	25
Item 24	2.50	.513	25
Item 25	2.20	.616	25
Item 26	2.50	.513	25
Item 27	2.40	.503	25
Item 28	2.50	.513	25
Item 29	2.35	.587	25
Item 30	2.30	.733	25

Item-Total Statistica

	Scale Mean If Item Deleted	Scale Variance If Item Deleted	Corrected Item-Total Correlation	Cronbech's Alpha If Item Deleted
Item 1	68.85	147.608	.833	.966
Item 2	68.75	147.250	.819	.966
Item 3	68.75	149.039	.832	.966
Item 4	68.80	150.379	.740	.967
Item 5	68.80	150.589	.595	.968
Item 6	68.85	148.239	.677	.967
Item 7	68.85	150.661	.522	.968
Item 8	68.75	148.934	.699	.967
Item 9	68.90	146.095	.842	.966
Item 10	68.85	148.766	.747	.967
Item 11	68.80	148.589	.738	.967
Item 12	68.80	147.537	.815	.966
Item 13	68.65	147.924	.759	.967
Item 14	68.65	153.082	.403	.969
Item 15	68.85	150.239	.638	.968
Item 16	68.70	149.695	.764	.967
Item 17	68.75	151.987	.485	.969
Item 18	68.80	1448.274	.761	.967
Item 19	68.75	150.724	.691	.967
Item 20	68.80	148.168	.666	.967
Item 21	68.85	149.713	.677	.967
Item 22	68.65	148.661	.708	.967
Item 23	68.85	150.555	.615	.968
Item 24	68.65	149.187	.802	.967
Item 25	68.95	150.155	.594	.968
Item 26	68.65	149.713	.759	.967
Item 27	68.75	150.724	.691	.967
Item 28	68.65	149.187	.802	.967
Item 29	68.80	149.221	.693	.967
Item 30	68.85	145.397	.768	.967

Scale Statistica

Mean	Variance	Std. Deviation	N of Items
71.15	159.503	12.629	30

HASIL UJI NORMALITAS DAN HOMOGENITAS DATA

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
PROFESIONALITAS	25	100.0%	0	.0%	25	100.0%
MOTIVASI KERJA	25	100.0%	0	.0%	25	100.0%
PEMB. EFEKTIF	25	100.0%	0	.0%	25	100.0%

Test of Normality

	Kolmogorov-Smirnov (a)			Shpiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
PROFESIONALITAS	.203	25	.009	.0915	25	.040
MOTIVASI KERJA	.179	25	.038	.0879	25	.007
PEMB. EFEKTIF	.186	25	.026	.904	25	.023

CONTOH PERHITUNGAN SECARA MANUAL UJI PRASYARAT ANALISIS NORMALITAS PADA PROFESIONAL GURU:

Diketahui distribusi frekuensi sebagai berikut:

Skor	$f_1=E_o$	X_1	$f_1 \times X_1$	$X_1=X$	$(X_1=X)^2$	$f_1 (X_1=X)^2$
65-69	1	67	67	-22	484	484
70-74	1	72	72	-17	289	289
76-79	5	77	385	-12	144	720
80-84	4	82	328	-7	49	196
85-89	5	87	435	-2	4	20
90-94	1	92	92	3	9	9
95-99	1	97	97	8	64	64
100-104	2	102	204	13	169	338
105-109	3	107	321	18	324	972
110-1140	2	112	224	23	529	1058
JUMLAH	25		2225			4150

Skor	$f_1=E_o$	X_1	BK	Z_{BK}	Luas	E_1	E_o-E_1	$(E_o-E_1)^2$	$(E_o-E_1)^2.E_1$
65-69	1	67	64,5 - 69,5	(-4,291)-(-3,415)	0,00027	0,00675	0,99325	0,9865456	146,155
70-74	1	72	69,5 - 74,5	(-3415) - (2,939	0,0054	0,135	0,865	0,748225	5,542
76-79	5	77	74,5 - 79,5	(-2539) - (-1,664)	0,0428	1,07	3,93	15,4449	14,434
80-84	4	82	79,5 - 84,5	(-1,664) - (-0,788)	0,1692	4,23	-0,23	0,0529	0,012
85-89	5	87	84,5 - 89,5	(-,0788) - 0,088	0,2504	6,26	-1,26	1,5876	0,254
90-94	1	92	89,5 - 94,5	0,088 - 0,963	0,3634	9,085	-8,085	65,367225	7,195
95-99	1	97	94,5 - 99,5	0,963 - 1,839	0,7979	19,9475	-18,9475	359,00776	17,998
100-104	2	102	99,5 - 104,5	1,839 - 2,714	0,0302	0,755	1,245	1,550025	2,053
105-109	3	107	104,5 - 109,5	2,714 - 3,590	0,0032	0,08	2,92	8,5264	106,58
110-1140	2	112	109,5 - 114,5	3,590 - 4,466	0,00017	0,00425	1,99575	3,9830181	937,181
JUMLAH	25								1237,404

Berdasarkan perhitungan tabel di atas, diperoleh nilai hitung = 1237.404. Sedangkan nilai tabel adalah 14.067. Dengan demikian uji > nilai tabel yaitu 1237.404 > 14.067. Kesimpulannya, distribusi frekuensi di atas normal

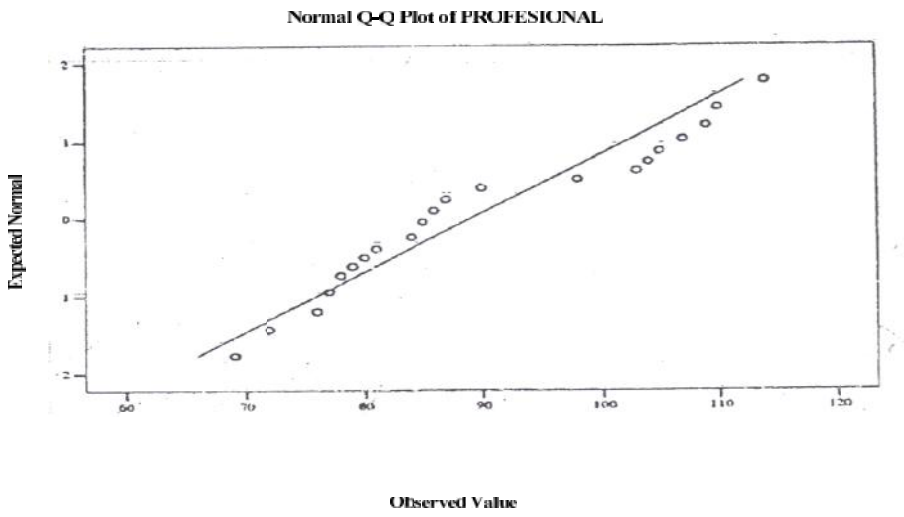
PROFESIONALITAS

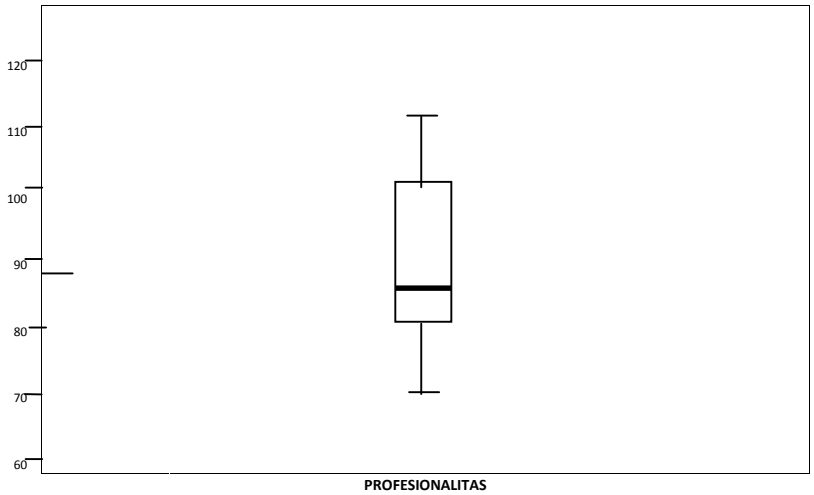
PROFESIONALITAS Stem-and-Leaf Plot

Frequency	Stem	&	Leaf
1.00	6	.	9
6.00	7	.	267789
9.00	8	.	014455677
2.00	9	.	08
5.00	10	.	34579
2.00	11	.	04

Stem width: 10

Each leaf : 1 case (s)





MOTIVASI KERJA

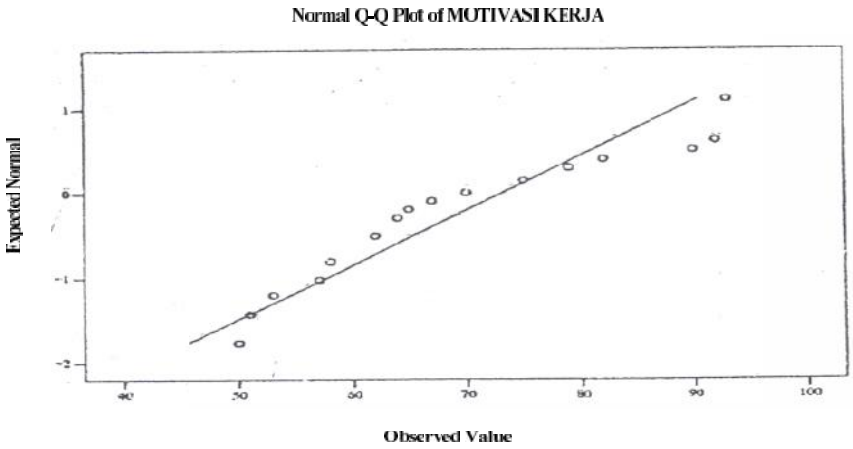
MOTIVASI KERJA Stem-and-Leaf Plot

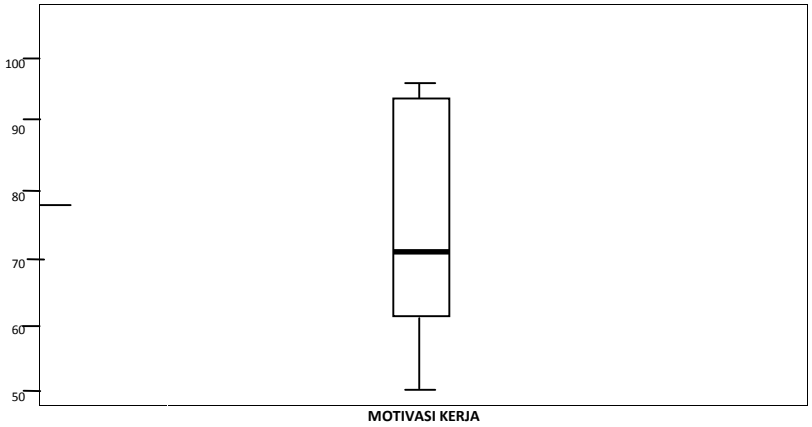
Frequency	Stem	&	Leaf
3.00	5	.	013
3.00	5	.	788
4.00	6	.	2224
2.00	6	.	57
1.00	7	.	0
3.00	7	.	559
1.00	8		2

.00	8	
8.00	9	02333333

Stem width: 10

Each leaf : 1 case (s)





PEMB. EFEKTIF

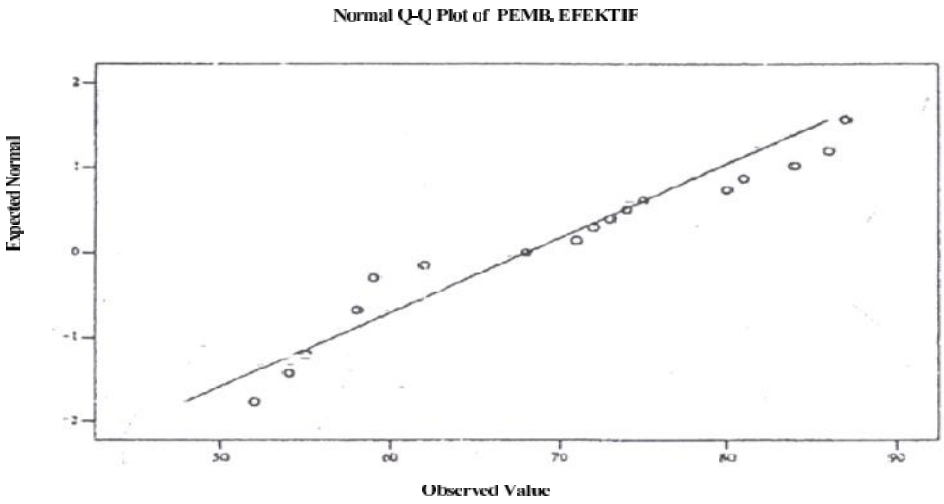
PEMB. EFEKTIF Stem-and-Leaf Plot

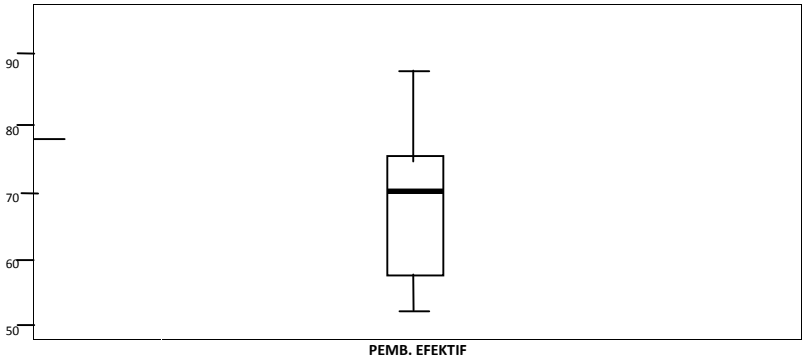
Frequency	Stem	&	Leaf
2.00	5	.	24

8.00	5	.	58888889
2.00	6	.	22
1.00	6	.	8
5.00	7	.	11234
1.00	7	.	5
3.00	8	.	014
3.00	8	.	677

Stem width: 10

Each leaf : 1 case (s)





Hasil Uji Homogenitas Data

Test of Homogenelty of Variances

	Levene Statistic	df1	df2	Sig.
PROFESIONALITAS GURU	3.960	8	16	.000
MOTIVASI KERJA GURU	2.887	8	16	.005

CONTOH PERHITUNGAN SECARA MANUAL UJI HOMOGENITAS

Sampel	db=n-1	S_1^2	Log S_1^2	db Log S_1^2	db S_1^2
1	24	173.327	2.239	53.736	4159.848
2	24	243.583	2.387	57.288	5845.992
3	24	130.54	2.116	50.784	3132.96
Jumlah	72			161.808	13138.8

$$S^2 = \frac{\sum db.S_1^2}{\sum db} = \frac{13138.8}{72} = 182.483$$

B = (Σ db) log S^2 = 72 x log 182.483 = 162.808

¡^{2} = (In10)(B-Σ db log S_1^2) = 2.303585 x (162.808 – 161.808) = 2.302585

Nilai dan titik kritis pada α = 0,05 dan db = k-I = 3-1 = 2 adalah ¡^{2} = 5,991. Dengan demikian kesimpulannya adalah karena nilai hitung ¡^{2} < dari nilai tabel ¡^{2}, yaitu 2.303 < 5,991, artinya variasi data dinyatakan homogen.

DESKRIPSI DATA PENELITIAN

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
PROFESIONALITAS	25	114	89.08	89.08	13.165
MOTIVASI KERJA	25	93	73.20	73.20	15.607
PEMB. EFEKTIF	25	87	68.04	68.04	11.425
Valid N (Ilstwise)	25				

Statistica

		PROFESIO	MOTIVASI	PEMB. EFEKTIF

		NALITAS	KERJA	
N	Valid	25	25	25
	Missing	0	0	0
Mean		89.08	73.20	68.04
Std. Error of Mean		2.633	3.121	2.285
Median		85.00	70.00	08.00
Mode		77 (a)	93	58
Std. Deviation		13.165	15.607	11.425
Variance		173.327	243.583	130.540
Range		45	43	35
Minimum		69	50	52
Maximum		114	93	87
Sum		2227	1830	1701

a Multiple modes exist. The smalest value is shown

Contoh perhitungan secara manual untuk mendeskripsikan data

X	F	FX	x	x^2	Fx^2
67	1	67	-22	484	484
72	1	72	-17	289	289
76	1	76	-13	169	169
77	2	154	-12	144	288
78	1	78	-11	121	121
79	1	79	-10	100	100
80	1	80	-9	81	81
81	1	81	-8	64	64
84	2	168	-5	25	50
85	2	170	-4	16	32
86	1	86	-3	9	9
87	2	174	-2	4	8
90	1	90	1	1	1
98	1	98	9	81	81
103	1	103	14	196	196
104	1	104	15	225	225
105	1	105	16	256	256
107	1	107	18	324	324
109	1	109	20	400	400
110	1	110	21	441	441
114	1	114	25	625	625

Jumlah	25	2225			4244

Dari tabel di atas diketahui bahwa nilai yang paling tinggi yang diperoleh responden dalam menjawab angket tentang profesionalitas guru yaitu 114 dan nilai terendah yaitu 67. Adapun nilai mean atau rata-rata keseluruhan skor responden adalah:

Mean $= \frac{\sum F}{N} = \frac{2225}{25}$ = 89

Adapun standar Deviasinya adalah:

$SD = \overline{\frac{\sum Fx^2}{N}} = \overline{\frac{4244}{25}}$ = 13.029

Frequency Table

PROFESIONALITAS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	69	1	4.0	4.0	4.0
	72	1	4.0	4.0	8.0
	76	1	4.0	4.0	12.0
	77	2	8.0	8.0	20.0
	78	1	4.0	4.0	24.0
	79	1	4.0	4.0	28.0
	80	1	4.0	4.0	32.0
	81	1	4.0	4.0	36.0
	84	2	8.0	8.0	44.0
	85	2	8.0	8.0	52.0
	86	1	4.0	4.0	56.0
	87	2	8.0	8.0	64.0
	90	1	4.0	4.0	68.0
	98	1	4.0	4.0	72.0
	103	1	4.0	4.0	76.0
	104	1	4.0	4.0	80.0
	105	1	4.0	4.0	84.0
	107	1	4.0	4.0	88.0

109	1	4.0	4.0	92.0
110	1	4.0	4.0	96.0
114	1	4.0	4.0	100.0
Total	25	100.0	100.0	

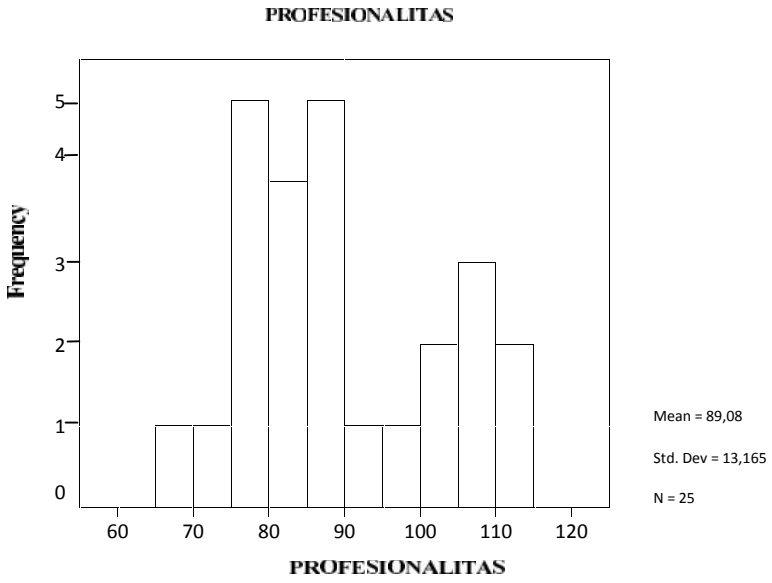
MOTIVASI KERJA

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	50	1	4.0	4.0	4.0
	51	1	4.0	4.0	8.0
	53	1	4.0	4.0	12.0
	57	1	4.0	4.0	16.0
	58	2	8.0	8.0	24.0
	62	3	12.0	12.0	36.0
	64	1	4.0	4.0	40.0
	65	1	4.0	4.0	44.0
	67	1	4.0	4.0	48.0
	70	1	4.0	4.0	52.0
	75	2	8.0	8.0	60.0
	79	1	4.0	4.0	64.0
	82	1	4.0	4.0	68.0
	90	1	4.0	4.0	72.0
	92	1	4.0	4.0	76.0
	93	6	24.0	24.0	100.0
	Total	25	100.0	100.0	

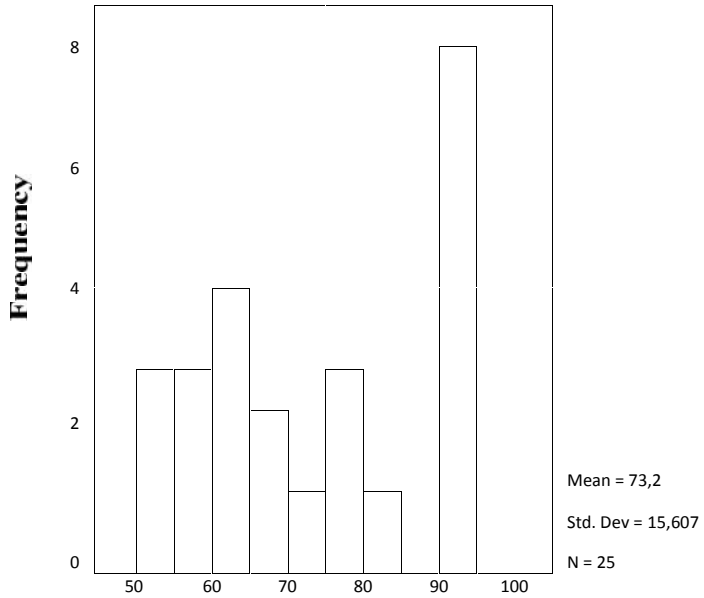
PEMB. EFEKTIF

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	52	1	4.0	4.0	4.0
	54	1	4.0	4.0	8.0
	55	1	4.0	4.0	12.0
	58	6	24.0	24.0	36.0
	59	1	4.0	4.0	40.0
	62	2	8.0	8.0	48.0
	68	1	4.0	4.0	52.0
	71	2	8.0	8.0	60.0
	72	1	4.0	4.0	64.0
	73	1	4.0	4.0	68.0
	74	1	4.0	4.0	72.0
	75	1	4.0	4.0	76.0
	80	1	4.0	4.0	80.0
	81	1	4.0	4.0	84.0
	84	1	4.0	4.0	88.0
	86	1	4.0	4.0	92.0
	87	2	8.0	8.0	100.0
	Total	25	100.0	100.0	

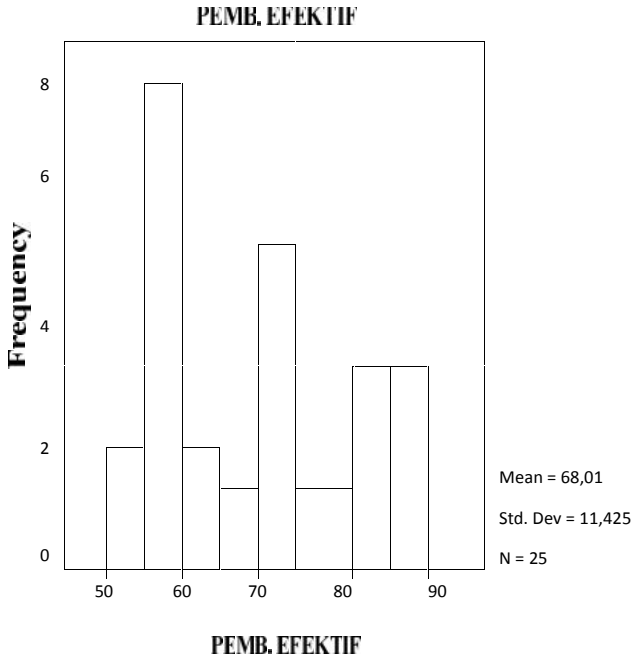
Histogram



Motivasi Kerja



Motivasi Kerja



HASIL UJI HIPOTESIS

Correlations

Correlations

		PROFESIONALITAS	PEMB. EFEKTIF
PROFESIONALITAS	Pearson Correlation	1	.842 (**)
	Sig. (2-tailed)		.000
	N	25	25
PEMB. EFEKTIF	Pearson Correlation	.842 (**)	1
	Sig. (2-tailed)	.000	
	N	25	25

** Correlation is significant at the 0.01 level (2-tailed)

Correlations

	PROFESIO	PEMB. EFEKTIF

		NALITAS	
MOTIVASI KERJA	Pearson Correlation	1	.816 (**)
	Sig. (2-tailed)		.000
	N	25	25
PEMB. EFEKTIF	Pearson Correlation	.816 (**)	1
	Sig. (2-tailed)	.000	
	N	25	25

** Correlation is significant at the 0.01 level (2-tailed)

Contoh perhitungan secara manual korelasi:

No. Responden	X_1	Y	X_1^2	Y_2	X_1Y
1	105	62	11025	3844	6510
2	87	56	7569	3136	4872
3	98	71	9604	5041	6958
4	76	75	5776	5625	5700
5	85	72	7225	5184	6120
6	110	71	12100	5041	7810
7	84	52	7056	2704	4368
8	77	73	5929	5329	5621
9	86	74	7396	5476	6364
10	79	68	6241	4624	5372
11	103	86	10609	7396	8858
12	81	58	6561	3364	4698
13	109	84	11881	7056	9156
14	72	58	5184	3364	4176
15	85	58	7225	3364	4930
16	104	87	10816	7569	9048
17	78	62	6084	3844	4836
18	80	59	6400	3481	4720
19	90	81	8100	6561	7290
20	84	54	7056	2916	4536
21	77	58	5929	3364	4466
22	107	80	11449	6400	8560
23	69	58	4761	3364	4002
24	114	87	12996	7569	9918
25	87	55	7569	3025	4785
JUMLAH	2227	1699	202541	118641	153674

Dari tabel di atas diperoleh korelasi Pearson sebagai berikut:

$$r = \frac{N\sum XY - (\sum X)(\sum Y)}{\sqrt{N\sum X^2 - (\sum X)^2 \quad N\sum Y^2 - (\sum Y)^2}}$$

$r = 0.842$

Regression

ANOVA (b)

Model	Sum of Squares		df	Mean Square	F	Sig.
1	Regression	2220.046	1			
		912.914	23	2220.046	55.932	.000(a)
	Residual	3132.960	24	39.692		
	Total					

a Predictors: (Constant). PROFESIONALITAS GURU
b Dependent Variable: PEMBELAJARAN EFEKTIF

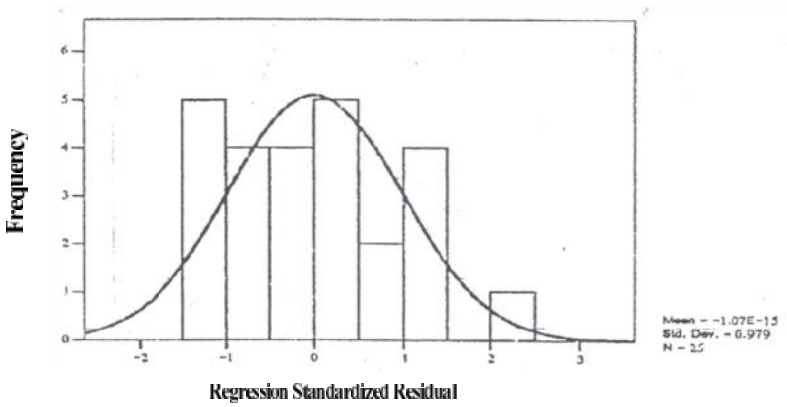
Coefficients (a)

Model		Unstandardized Coefficients		Standardized Coefficients	1	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.964	8.792		.337	.739
	PROFESIONALITAS GURU	.731	.098	.842	7.479	.000

a Dependent Variable: PEMBELAJARAN EFEKTIF

Histogram

Dependent Variable : PEMB. EFEKTIF



Regression

ANOVA (b)

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2086.837	1	2086.837	45.881	.000(a)
	Residual	1046.123	23	45.484		
	Total	3132.960	24			

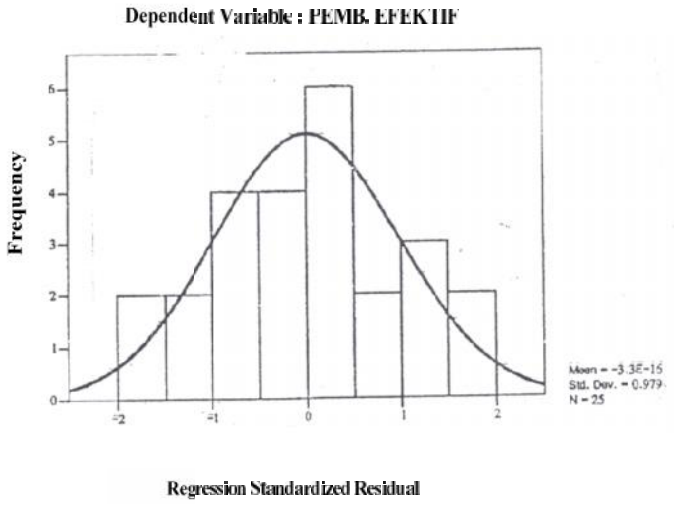
a Predictors: (Constant). MOTIVASI KERJA GURU
b Dependent Variable: PEMBELAJARAN EFEKTIF

Coefficients (a)

Model		Unstandardized Coefficients		Standardized Coefficients	1	Sig.
		B	Std. Error	Beta		
1	(Constant)	24.305	6.596		3.685	.001
	MOTIVASI KERJA GURU	.597	.088	.816	6.774	.000

a Dependent Variable: PEMBELAJARAN EFEKTIF

Histogram



Regression

ANOVA (b)

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2322.184	2	1161.092	11.309	.000(a)
	Residual	810.776	22	36.853		
	Total	3132.960	24			

a Predictors: (Constant). MOTIVASI KERJA, PROFESIONALITAS GURU
b Dependent Variable: PEMBELAJARAN EFEKTIF

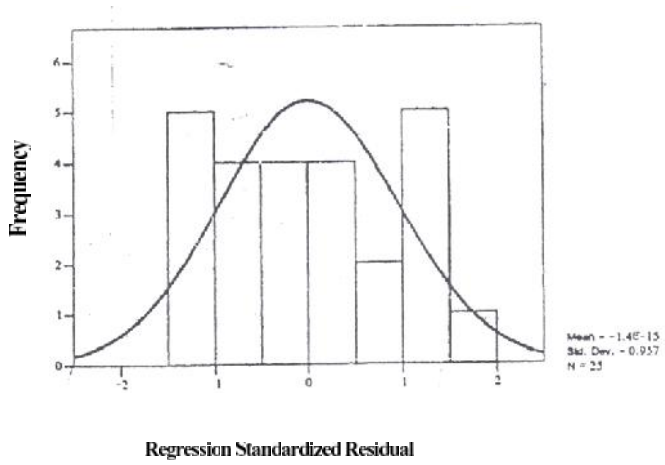
Coefficients (a)

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	7.532	8.905		.846	.407
	PROFESIONALITAS	.466	.185	.537	2.527	.019
	MOTIVASI KERJA	.259	.156	.354	1.665	.110

a Dependent Variable: PEMBELAJARAN EFEKTIF

Histogram

Dependent Variable : PEMB. EFEKTIF



Contoh perhitungan secara manual Regresi Ganda:

No. Responden	X_1	X_2	Y	X_1^2	X_2^2	Y^2	X_1Y	X_2Y	X_1X_2
1	105	93	62	11025	8649	3844	6510	5766	9765
2	87	70	56	7569	4900	3136	4872	3920	6090
3	98	93	71	9604	8649	5041	6958	6603	9114
4	76	75	75	5776	5625	5625	5700	5625	5700
5	85	62	72	7225	3844	5184	6120	4464	5270
6	110	92	71	12100	8464	5041	7810	6532	10120
7	84	57	52	7056	3249	2704	4368	2964	4788
8	77	79	73	5929	6241	5329	5621	5767	6083
9	86	62	74	7396	3844	5476	6364	4588	5332
10	79	51	68	6241	2601	4624	5372	3468	4029
11	103	93	86	10609	8649	7396	8858	7998	9579
12	81	62	58	6561	3844	3364	4698	3596	5022
13	109	93	84	11881	8649	7056	9156	7812	10137
14	72	53	58	5184	2809	3364	4176	3074	3816
15	85	65	58	7225	4225	3364	4930	3770	5525
16	104	93	87	10816	8649	7569	9048	8091	9672
17	78	58	62	6084	3364	3844	4836	3596	4524
18	80	67	59	6400	4489	3481	4720	3953	5360
19	90	82	81	8100	6724	6561	7290	6642	7380
20	84	75	54	7056	5625	2916	4536	4050	6300
21	77	50	58	5929	2500	3364	4466	2900	3850
22	107	90	80	11449	8100	6400	8560	7200	9630
23	69	58	58	4761	3364	3364	4002	3364	4002
24	114	93	87	12996	8649	7569	9918	8091	10602
25	87	64	55	7569	4096	3025	4785	3520	5568
JUMLAH	2227	1830	1699	202541	139802	118641	153674	127354	167258

Berdasarkan tabel di atas dapat dihitung:

$\sum X_1^2 = \quad \overline{X_1^2} - \frac{(\sum X_1)^2}{n} = 202541 - \frac{(2227)^2}{25}$ = 202541 – 19831 .16 = 4159 .84

$\sum X_2^2 = \quad \overline{X_2^2} - \frac{(\sum X_1)^2}{n} = 139802 - \frac{(1830)^2}{25}$ = 139802 – 133956 = 5846

$\sum X_1Y = \sum X_1Y \; - \frac{\sum X_1 \sum Y}{n} = 153848 - \frac{2227\ (1701)}{25}$ = 153848 – 151525 .08 = 2322 .92

$\sum X_2Y = \sum X_2Y \; - \frac{\sum X_2 \sum Y}{n} = 127494 - \frac{1830\ (1701)}{25}$ = 127494 – 124513 .2 = 2980 .8

$\sum X_2Y = \sum X_2 \; - \frac{\sum X_1 \sum X_2}{n} = 1672558 - \frac{2227\ (1830)}{25}$ = 167258 – 163016 .4 = 4241 .6

$$b1 = \frac{(\sum X_2^2)(\sum X_1Y) - \ \sum X_1X_2\ \ (\sum X_2Y)}{\sum X_1^2\ \ \sum X_2^2\ - (\sum X_1X_2)^2}$$

$$b1 = \frac{139802\ \ 153848 - 167258\ (127494)}{202541\ \ 139802\ -(167258)^2} = \frac{2.1508-2.1324}{2.8316-2.7975} = \frac{0.0184}{0.0341} = 0.539$$

$$b2 = \frac{(\sum X_1^2)(\sum X_2Y) - \ \sum X_1X_2\ \ (\sum X_1Y)}{\sum X_1^2\ \ \sum X_2^2\ - (\sum X_1X_2)^2}$$

$$b1 = \frac{2025141\ \ 127494 - (167258)(153848)}{202541\ \ 139802\ -(167258)^2} = \frac{2.5823-2.57324}{2.8316-2.7975} = \frac{0.0091}{0.0341} = 0.267$$

$a = \frac{\sum Y}{n} - b_1\ \frac{\sum X_1}{n}$ -$b_2\ \frac{\sum X_2}{n}$ =$\frac{1701}{25} -$ 0,539 $\frac{2227}{25}$ -0,267 $\frac{1830}{25}$

a = 68.04 – 48.01 – 19.54 = 0.49

Jumlah Kuadrat Regresi:

$JK_{(Reg)}$ = $b_1 \sum X_1 + b_2 \sum X_2Y$ = (0.539)(153848) + (0.267)(127494)

$JK_{(Reg)}$ = 82924 + 34040 = 116964.898

Jumlah Kuadrat Residu:

$JK_{(Reg)}$ = $\sum Y^2 - \frac{(\sum Y^2}{n}$ - $JK_{(Reg)}$ = $118869 - \frac{(1701)^2}{25}$ - 116964.898 = 113832

Nilai hitung F diperoleh:

$$F_{hitung} = \frac{\frac{JK_{(Reg)}}{k}}{\frac{JK_{(Reg)}}{n-k-I}} = \frac{\frac{116964.898}{2}}{\frac{113832}{25-2-1}} = \frac{58482.4}{5174.18} = 11.309$$