YAYASAN METHODIST RAHMANI INDONESIA

SMA PERGURUAN KRISTEN METHODIST INDONESIA BERASTAGI
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KABUPATEN KARO - SUMATERA UTARA

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SURAT KETERANGAN

NO : 2448 / SKL : SMA / SWT-MET /BT / VI/ 2021

Kepala Sekolah SMA Swasta Methodist Berastagi, Kecamatan Berastagi, Kabupaten Karo, Provinsi Sumatera Utara menerangkan bahwa :

Nama	**: Yohana Margareta br Surbakti**
NPM	**: 1715020001**
Universitas	**: Universitas Quality Berastagi**
Prodi	**: Pendidikan Bahasa Inggris**
Keterangan	**: Telah melakukan penelitian dengan menggunakan metode wawancara dan observasi dokumentasi.**

Mahasiswi tersebut benar-benar melaksanakan kegiatan penelitian di SMA Swasta Methodist Berastagi pada tanggal 14-28 Juni 2021. Dengan judul penelitian:

"THE INFLUENCE OF PARENTAL EDUCATION LEVELS TO THE STUDENT'S LEARNING ACHIEVEMENT AT ELEVENTH GRADE OF SMA METHODIST BERASTAGI ACADEMIC YEAR 2020/2021".

Demikian surat keterangan ini kami buat dengan sebenarnya, agar dapat digunakan sebagaimana mestinya.

Berastagi, 28 Juni 2021,

Kepala Sekolah

Evi Chandra,S.Pd,K

APPENDIX 2

Data of Parent's Educational Level

No.	Student's name	The last educational level of parent's
1.	AF Surbakti	SHS
2.	AH Sembiring	C
3.	AD Br Sembiring	SHS
4.	ASE Surbakti	SHS
5.	AP	SHS
6.	B Br Barus	JHS
7.	CK Br Sembiring	C
8.	DN Br Sembiring	C
9.	DP Br Sembiring	SHS
10.	EL Br Sinulingga	ES
11.	EY S.Kembaren	JHS
12.	EF Br Sembiring	ES
13.	HV Tarigan	JHS
14.	HN Br Tarigan	SHS
15.	IN Br Barus	ES
16.	K Br Sembiring	JHS
17.	LBC	ES
18.	MV Bukit	C
19.	NL Br Tarigan	C

20.	N Ginting	ES
21.	N Br Zandroto	JHS
22.	R Br Bukit	SHS
23.	RP Br Sembiring	SHS
24.	RP Sembiring	JHS
25.	SS Kaban	ES

APPENDIX 3

Calculation of Mean, Standard Deviation, Normality of Parents'

Educational Level Data

No.	X_i	f_{abs}	F_{rel}
1.	1	6	24
2.	2	6	24
3.	3	8	32
4.	4	5	20
Σ		25	100

No.	X_i	F_i	F_{cum}	x^2	F_iX_i	$F_iX_i{}^2$
1.	1	6	6	1	6	6
2.	2	6	12	4	12	24
3.	3	8	20	9	24	72
4.	4	5	25	16	20	80
Σ		25	63	30	62	182

Average:

$$\bar{X} = \frac{\Sigma F_i X_i}{\Sigma F_i}$$

$\bar{X} = \frac{62}{25} =$ **2.48**

Standart Deviation:

$$s^2 = n\frac{\Sigma_{F_i X_i} - \left(\Sigma_{F_i X_i}\right)^2}{n(n-1)}$$

$\boldsymbol{s^2 = \frac{4550-3884}{25(25-1)}}$

s^2= 1.176667

$\boldsymbol{s^2}$**= 1.084743**

DATA NORMALITY

No.	$\boldsymbol{X_i}$	$\boldsymbol{F_i}$	$\boldsymbol{F_{cum}}$	$\boldsymbol{Z_i}$	$\boldsymbol{F(z_i)}$	$\boldsymbol{S(Z_i)}$	$\boldsymbol{F(z_i)}$- $\boldsymbol{S(Z_i)}$
1.	1	6	6	-1.36	0.0869	0.24	0.153
2.	2	6	12	-0.44	0.33	0.48	0.15
3.	3	8	20	0.48	0.06844	0.8	0.115
4.	4	5	25	1.40	0.9192	1	0.080
Σ		25					

L_0= 1.153

L_{table}= 1.173

L_0= 1.153<L_{table}= 1.173

Conclusion:

Accept H_0 or data is normally distributed.

APPENDIX 4

List of Student's Learning Achievement

No.	Student's Name	Student's Learning Achievement
1.	AF Surbakti	74.89
2.	AH Sembiring	82.77
3.	AD Br Sembiring	76.55
4.	ASE Surbakti	8.44
5.	AP	74
6.	B Br Barus	64.78
7.	CK Br Sembiring	83
8.	DN Br Sembiring	77.33
9.	DP Br Sembiring	76.5
10.	EL Br Sinulingga	66.78
11.	EY Kembaren	79
12.	EF Br Sembiring	71.55
13.	HV Tarigan	68
14.	HN Br Tarigan	74
15.	IN Br Barus	70
16.	K Br Sembiring	66.56
17.	LBC	68.78
18.	MV Bukit	66.78
19.	NL Br Tarigan	67.78
20.	N Ginting	65.11
21.	N Br Zandroto	73.22
22.	R Br Bukit	73.5
23.	RP Br Sembiring	73.56
24.	RP Sembiring	69.99
25.	SS Kaban	65.44

APPENDIX 5

Distribution of Relative Frequency of Student's Learning Achivement

No.	X_1	f_{abs}	f_{rel}
1.	64.78	1	4
2.	65.11	1	4
3.	65.44	1	4
4.	66.56	1	4
5.	66.78	2	8
6.	67.78	1	4
7.	68	1	4
8.	68.78	1	4
9.	69.99	1	4
10.	70	1	4
11.	71.55	1	4
12.	73.22	1	4
13.	73.5	1	4
14.	73.56	1	4
15.	74	2	8
16.	74.89	1	4
17.	76.5	1	4
18.	76.55	1	4
19.	77.33	1	4
20.	79	1	4
21.	82.44	1	4
22.	82.77	1	4
23.	83	1	4
			100

No.	X_i	F_i	F_{Cum}	x^2	F_iX_i	$F_iX_i{}^2$
1.	64.78	1	1	4196.4484	64.78	4196.4484
2.	65.11	1	2	4239.3121	65.11	4239.3121
3.	65.44	1	3	4282.3936	65.44	4282.3936
4.	66.56	1	4	4430.2336	66.56	4430.2336
5.	66.78	2	6	4459.5684	66.78	4459.5684
6.	67.78	1	7	4594.1284	67.78	4594.1284
7.	68	1	8	4624	68	4624
8.	68	1	9	4730.6884	68	4730.6884
9.	69.99	1	10	4898.6001	69.99	4898.6001
10.	70	1	11	4900	70	4900
11.	71.55	1	12	5119.4025	71.55	5119.4025
12.	73.22	1	13	5361.1684	73.22	5361.1684
13.	73.5	1	14	5402.25	73.5	5402.25
14.	73.56	1	15	5411.0736	73.56	5411.0736
15.	74	2	17	5476	148	10952
16.	74.89	1	18	5608.5121	74.89	5608.5121
17.	76.5	1	19	5852.25	76.5	5852.25
18.	76.55	1	20	5859.9025	76.55	5859.9025
19.	77.33	1	21	5979.9289	77.33	5979.9289
20.	79	1	22	6241	79	6241
21.	82.44	1	23	6796.3536	82.44	6796.3536
22.	82.77	1	24	6850.8729	82.77	6850.8729
23.	83	1	25	6889	83	6889
Σ	1671.53	25	279	122203.0875	1812.31	132138.6559

Average:

$$\bar{X} = \frac{\Sigma F_i X_i}{\Sigma F_i}$$

$$\bar{X} = \frac{1812.31}{25} = \mathbf{72.49}$$

Standart Deviation:

$$s^2 = n\frac{\Sigma F_i X_i - \left(\Sigma F_i X_i\right)^2}{n(n-1)}$$

$$\boldsymbol{s^2 = \frac{25x132138.6559(181231)^2}{25(25-1)}}$$

$s^2 = \frac{3303466 - 3284467.54}{600}$

$s^2 = 3166477$

$s = 5.627$

No.	X_i	F_i	F_{cum}	Z_i	F_{Z_i}	S(Z_i)	F(Z_i)- S(Z_i)
1.	64.78	1	1	-1.37	0.0853	0.04	0.045
2.	65.11	1	2	-1.31	0.0951	0.08	0.015
3.	65.44	1	3	-1.25	0.0606	0.12	0.059
4.	66.56	1	4	-1.05	0.1469	0.16	0.013
5.	66.78	2	6	-1.02	0.1539	0.24	0.086
6.	67.78	1	7	-0.84	0.2004	0.28	0.080
7.	68	1	8	-0.80	0.2119	0.32	0.108
8.	68	1	9	-0.66	0.2546	0.36	0.105
9.	69.99	1	10	-0.44	0.33	0.4	0.070
10.	70	1	11	-0.44	0.33	0.44	0.110
11.	71.55	1	12	-0.17	0.4325	0.48	0.048
12.	73.22	1	13	0.13	0.5517	0.52	0.032
13.	73.5	1	14	0.18	0.5714	0.56	0.011
14.	73.56	1	15	0.19	0.5754	0.6	0.025
15.	74	2	17	0.27	0.6064	0.68	0.074
16.	74.89	1	18	0.43	0.6664	0.72	0.054
17.	76.5	1	19	0.71	0.7612	0.76	0.001
18.	76.55	1	20	0.72	0.7642	0.8	0.036
19.	77.33	1	21	0.86	0.8051	0.84	0.035
20.	79	1	22	1.16	0.877	0.88	0.003
21.	82.44	1	23	1.77	0.9616	0.92	0.042
22.	82.77	1	24	1.83	0.9664	0.96	0.006
23.	83	1	25	1.87	0.9686	1	0.031

L_0= 0.110

L_{table}= 0.173

L_0= 0.110 <L_{table}= 0.173

Conlusion:

Accept H_0 or data is normally distributed.

APPENDIX 6

No.	Student's name	The last educational level of parent's	Student's Learning Achievement
1.	AF Surbakti	Senior	74.89
2.	AH Sembiring	College	82.77
3.	AD Br Sembiring	Senior	76.55
4.	ASE Surbakti	Senior	8.44
5.	AP	Senior	74
6.	B Br Barus	Junior	64.78
7.	CK Br Sembiring	College	83
8.	DN Br Sembiring	College	77.33
9.	DP Br Sembiring	Senior	76.5
10.	EL Br Sinulingga	Elementary	66.78
11.	EY Kembaren	Junior	79
12.	EF Br Sembiring	Elementary	71.55
13.	HV Tarigan	Junior	68
14.	HN Br Tarigan	Senior	74
15.	IN Br Barus	Elementary	70
16.	K Br Sembiring	Junior	66.56
17.	LBC	Elementary	68.78
18.	MV Bukit	College	66.78
19.	NL Br Tarigan	College	67.78
20.	N Ginting	Elementary	65.11
21.	N Br Zandroto	Junior	73.22
22.	R Br Bukit	Senior	73.5
23.	RP Br Sembiring	Senior	73.56
24.	RP Sembiring	Junior	69.99
25.	SS Kaban	Elementary	65.44

Independent Test Between Two Factors

Parental Educational Level	Value		Total
	60-72	73-85	
Elementary	6	0	6
Junior	4	2	6
Senior	0	8	8
College	2	3	5
Total	12	13	25

Parental Educational Level	Value		Total
	60-72	73-85	
Elementary	6 2.88	0 3.12	6
Junior	4 2.88	2 3.12	6
Senior	0 2.88	8 3.12	8
College	2 2.88	3 3.12	5
Total	12	13	25

$$x^2 = \sum_{i=1}^{B} \sum_{j=1}^{K} \frac{(O_{ij} - E_{ij})^2}{E_{ij}}$$

$$x^2 = \frac{(6-2.88)^2}{2.88} + \frac{(0-3.12)^2}{3.12} + \frac{(4-2.88)^2}{2.88} + \frac{(2-3.12)^2}{3.12} + \frac{(0-2.88)^2}{2.88} + \frac{(8-3.12)^2}{3.12} + \frac{(2-2.88)^2}{2.88} + \frac{(3-3.12)^2}{3.12}$$

$$x^2 = \frac{9.7344}{2.88} + \frac{9.7344}{3.12} + \frac{1.2544}{2.88} + \frac{1.2544}{3.12} + \frac{0.7744}{2.88} + \frac{0.0144}{3.12}$$

x^2= 3.38+3.12+0.435556+0.402051+0.268889+0,004615

x^2count= 7.611111

x^2table= x^2(1-α) (B-1) (K-1) = x^2(1-0.05) (2-1) (2-1) = 3.84

x^2table = 3.84

x^2count = 7.611111 >x^2table = 3.84

So, obtained value x^2count = 7.611111 bigger than x^2table = 3.84, so H_0rejected and H_1accepted. It means there is the influence of parental educational level to the student's learning achievement at eleventh grade of SMA Methodist Berastagi academic year 2020/2021.