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# Proceedings of the 9th International Conference for Science Educators and Teachers (ICSET 2017)

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The 9th International Conference for Science Educators and Teachers (ICSET 2017), held on Wednesday 13–Friday 15 September 2017 in UTC Semarang, Indonesia, is a conference based research, attracting more than 200 researchers from all over the nation. The conference is held to discover the findings, ideas, and the education policies, as a contribution within the national education development, especially in the capacity for producing a professional educators and administrators. In its journey, the forum continues to improve the needs in accordance with independent and dignified nation education. Moreover, when entering the ASEAN Economic Community (AEC), certainly, challenges and hopes from the stakeholders' need to be responded to wisely, as to be a winner in the global competition. The commitment of the forum is to bring quality and dignified educators

with acceleration, innovation and strategy which maintain the value of the nation as a cultural power which should be preserved also to enhance the nation to be excellent in the ASEAN global competition. To obtain the goals of the nation, this year the forum continued its biennial agenda in the Semarang State University.

Please click [here](#) for the conference website. (*Conference website no longer available.*)

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This Conference Proceedings volume contains the written version of all of the contributions presented during the 9th International Conference for Science Educators and Teachers (ICSET 2017). The international conference held by FIP-JIP is a research based conference. The conference is organized to discover the findings, ideas, and the education policies, as a contribution within the national education development, especially in the capacity for producing professional educators and administrators.

In its journey, the forum continues to improve the needs in accordance with independent and dignified nation education. Moreover, when entering the ASEAN Economic Community (AEC), certainly, challenges and hopes from the stakeholders' need to be responded to wisely, as to be a winner in the global competition. The commitment of the forum is to bring quality and dignified educators with acceleration, innovation and strategy which maintain the value of the nation as a cultural power which should be preserved also to enhance the nation to be excellent in the ASEAN global competition. To obtain the goals of the nation, this year the forum continued its biennial agenda in the Universitas Negeri Semarang, Indonesia.

The proceedings of ICSET came from researchers, lecturer, teacher, practitioners, private and public stakeholders, and educators from various fields. ICSET has seven sub themes, Acceleration and Innovation: Educational Administration in Producing Supervisors, Principals, and Professional High Education Manager in the MEA era 2017, Acceleration and Innovation: Psychology and Counseling in Students' Character Development Establishing Indonesian Golden Generation 2045, Actualisation and Innovation: Primary school teachers as cross country educators in ASEAN region, Acceleration and Innovation: The Concept of Early Childhood Teacher Education Based on Local Wisdom and Sociocultural, Acceleration and

Innovation in Curriculum and Educational Technology Study Implementing Innovation and Technology to Respond the Dynamics Changes in the ASEAN Economic Community (AEC), Actualization of Non-Formal Education to Meet Society Needs Base on Local Wisdom Uniqueness” by Chairman of Indonesian Academics Non-Formal and Formal Education, The Implementation of Special Educational Needs Children in Global Perspective,

We would like to thank all participants for their contributions to the Conference program and for their contributions to the Proceedings. Many thanks go as well to the all speaker and all of reviewer, our special thanks go to Rector of Universitas Negeri Semarang, Dean of education faculty.

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### Relationship Between Educational Level of Students' Parent with Students Achievement at Elementary School

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#### Keywords

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#### Abstract

The purpose of the research was to know the relationship between educational level of students' parent with students Achievement. The research was conducted by using ex post facto with correlation method. This study involved 8 elementary schools at Kecamatan Bulango Kabupaten Bone Bolango - Gorontalo. The data were shown that value of  $\chi^2$  count = 30,832 in and df = 6, value of = 12,591. So, it can be concluded that it has Relationship between the educational level of students' parent with students Achievement.

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## Relationship Between Educational Level of Students' Parent with Students Achievement at Elementary School

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### Abstract

The purpose of the research was to know the relationship between educational level of students' parent with students Achievement. The research was conducted by using ex post facto with correlation method. This study involved 8 elementary schools at Kecamatan Bulango Kabupaten Bone Bolango - Gorontalo. The data were shown that value of  $\chi^2_{count} = 30,832$  in and  $df = 6$ , value of  $\chi^2_{table} = 12,591$ . So, it can be concluded that it has Relationship between the educational level of students' parent with students Achievement.

Keywords: Educational level, students' parent, student achievement

## 1 INTRODUCTION

Parents educational level have an effect on student achievement. Parents who have a high educational level, sometimes give their attention to their children to learn more. But sometimes parents who have a high educational level also have a good occupation, so they have no time to guide their children to learn at home. The opposite, parents who have low levels of education and have a job such as a farmer or fisherman have many times at home so they can spend time by guide or ask their children to study or learn at home.

The other side, parents who have high level have a way to make their children to get good achievement through informal education (tuition) after the formal class at school. But parents who have a job as a farmer or fisherman have no much money to register their children to informal education, and it makes their children have no achievement at school.

These two phenomena, can make students have a good or bad achievement, whether students from a farmer or fisherman. So, this article explains about the "Relationship Between Educational Level of Students' Parent With Students Achievement at Elementary School".

According to Tohirin opinion, student achievement is what the students get after the their learning process in the class (Setiawan, 2015: 12). In

more opinion, Setiawan (2015: 2) also said that: the student achievement in a subject will appear after the learning evaluation and measurement process of learning result.

Learning achievement is a perennial problem in human history, because human always chasing achievement base on their field and their expert (Arifin, 2013:12).

Reskia, et.al (2014: 86) said that parents are a figure to form children personality. It hopes to give direction, controlling, guide children development

The Parent who has higher education also has more confidence to help their children to learn. By the level of believing, it assume will have a significancy effect on their children in academic ability (Reskia, et.al., 2014: 86).

In around family area, parent have participation as an educator (father and mother). Parent is first and main educator to help in improving the child's potential. They were said as the first educator because they give first education since they born. They were said as a main educator because the education what give by parent is a basic and very determine child development to the next (Sakdiyah, 2011:39).

## 2 METHODS

The research was conducted in elementary school around Sub-District of Bulango Utara, District of Bone Bolango, Gorontalo Province. It was consisted of 8 schools. The research was used correlation method. Data were collected by documentation, questionnaire. Data was analyzed by using descriptive statistic and inferential statistic in non-parametric statistic form

## 3 RESULT AND DISCUSSION

Data was collected from 60 students at grade V all elementary at sub-district of Bulango Utara, as shown in the diagram below:

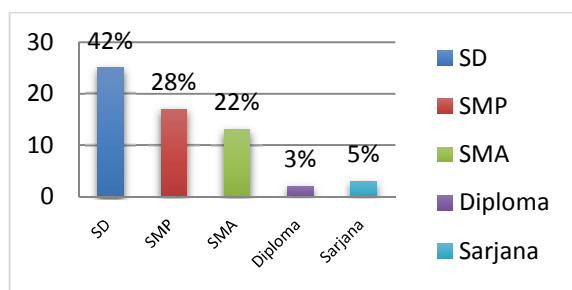


Figure 1. Students' parent educational level

Table 1. Variable description

Variable	Average	Variance	Minimum	Maximum
Students Learning Result	81,25	20,88	70	90

Based on the above table can provide information about the average achievement of learners in class V State Elementary School as District Bulango Utara is 81.25 with a minimum value of 70 and the maximum value is 90. It is able to provide information learners class V State Elementary School in North Bulango District can reach the highest value of 90 is still there that produces 70.

Frequency distribution of student achievement in table 2.

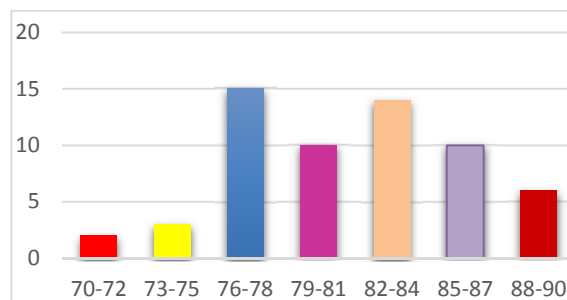


Figure 2. Histogram of Students Achievement

Table 3 achievement of student achievement and table 4 student achievement values below.

After calculating the value of hope, now continue to calculate chi-square value. Value of chi-square  $\chi^2_{hit} = 30,832$ . For significant level  $\alpha = 0.05$  and degree of freedom 6, the value was  $\chi^2_{tabel} = 12,591$ . So can be concluded that hypothesis  $H_0$  refuse because. It meant that have a relationship between level of parent education and student achievement.

Meanwhile, value of coefficient contingency was 0,582 and values of  $C_{max}$  were 0,80.

### 3.1 Discussion

The result of data analysis by using coefficients contingency = 0,582 and  $C_{max} = 0,80$ . So,  $H_0$  was refused and  $H_a$  was accepted. And it can be concluded that: have a relationship between level of students' parents and student achievement at grade V in all elementary schools in sub-district of Bulango Utara, Bone Bolango District

Based on the result of data analysis, the level of parents' education has a positive factor in student achievement. Parents educational level in high position will give motivation to the children's achievement. While, low level of parents' education cause student achievement result not satisfied (low standard).

So that, high or low student achievement correlated with parents' educational level. Parents ought to guide their children at home in order to motivate to learn intensively, not only depend by the

teacher at school. Parents not only give material need, but also they must give educational need.

As those all above has to be recited as: have a negative relationship between level of students' parents and student achievement at grade V in all elementary schools in sub-district of Bulango Utara, Bone Bolango District, because result research shown that lower level of students' parents, higher in students' achievement. And the higher level of students' parents, low in students' achievement.

#### 4 CONCLUSION AND RECOMMENDATION

Research conclusion:

1. Student achievement at all elementary schools in Bulango Utara sub-district average = 81,25 with minimal score = 70 and maximal score = 90. It meant student achievement in good categories.
2. Has a negative relationship between level of students' parents and student achievement at grade V in all elementary schools in sub-district of Bulango Utara, Bone Bolango District.

Research Recommendation:

Based result research and discussion that have a negative relationship between level of students' parents and student achievement at grade V in all elementary schools in sub-district of Bulango Utara, Bone Bolango District, so parents must give motivation by giving suggestions and controlling their children at home.

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Table 2. Distribution of Frequency Students Achievement

No	Interval Class	$F_i$	$x_i$	$F_i * x_i$	$d$	$d^2$	$F_i * d$	$F_i * (d)^2$
1	70-72	2	71	142	-3	9	-6	18
2	73-75	3	74	222	-2	4	-6	12
3	76-78	15	77	1155	-1	1	-15	15
4	79-81	10	80	800	0	0	0	0
5	82-84	14	83	1162	1	1	14	14
6	85-87	10	86	860	2	4	20	40
7	88-90	6	89	534	3	9	18	54
Total		60		4875		28	25	153

Table 3. Contingency Students Achievement

Level of parents' students	Students' Achievement							Total
	70-72	73-75	76-78	79-81	82-84	85-87	88-90	
SD	1	2	9	1	7	3	2	25
SMP	1	0	3	5	4	5	1	19
SMA	0	0	2	4	2	2	1	11
D1. D2. D3 or D4	0	0	2	0	0	0	0	2
S1. S2 or S3	0	0	0	0	1	0	2	3
Total	2	2	16	10	14	10	6	60

Table 4. Value of Student Achievement Hope

Observation	Value of Hope	Observation	Value of Hope	Observation	Value of Hope
1	0.833	5	3.167	0	0.333
2	0.833	1	1.900	0	0.467
9	6.667	0	0.367	0	0.333
1	4.167	0	0.367	0	0.200
7	5.833	2	2.933	0	0.100
3	4.167	4	1.833	0	0.100
2	2.500	2	2.567	0	0.800
1	0.633	2	1.833	0	0.500
0	0.633	1	1.100	1	0.700
3	5.067	0	0.067	0	0.500
5	3.167	0	0.067	2	0.300
4	4.433	2	0.533		

