

The Effect of Value National Exam Standards at Learning Achievement of Students at Senior High School

Nurdiana Fahmi

Department Of Mathematic Education
Postgraduate Program Universitas Negeri Medan
Medan, Indonesia
e-mail : dhyanfahmi58@gmail.com

Bornok Sinaga
Universitas Negeri Medan
Medan, Indonesia

W. Rajagukguk
Universitas Negeri Medan
Medan, Indonesia

Abstract – The National standardized exam value each year turn to higher. Indirectly this encourages students to study harder. This research aims to find out whether there is a significant effect of the increase in the standard value of national examinations on mathematics learning achievement students. This study is descriptif qualitatif using random sampling. The data collection tool in the research is the questionnaire instrument and the data of the grade report value. The questionnaire instrument contains 15 items that has been in validation and reliability. The result of t-test analyzed show that the effect of value national standard examination is 2,23 with ph-gained 0,00 less than 0,05. This means H_0 refused and H_a so there is significant effect of the increase in the standard value of national examination effects the mathematics learning achievement examination at Senior High School is 41%, while 49% is effect by other matters.

Keywords: national examination, student learning achievement

I. INTRODUCTION

Education is the future assets in the form of qualified human resources. Kalitas enhancement of human resources need to be handled by a good system.[1]. The purpose of government in promoting education for the better, one of which is by improving the quality of students' graduation. To improve the quality of education of students passing the national exam as the government set the graduation exam. National exam standard value every year turn into higher than the previous year, in 2008 the value of passing standard for each subject in national exam was 5.25 and in 2009 changed to 5.5. [9].

Lesson being examined is science majors Mathematics, Indonesian, English, Physics, Biology and Chemistry and for the Social Sciences namely Mathematics, Indonesian, English, History, Geography and Economics with a degree of difficulty increases.[2] mathematics is a lesson that is considered difficult to understand for most students, senior high school at Angkasa lanud 1st Medan also think math is very difficult to understand. There are several factors that cause students to feel hard in math among others, the mathematics are subjects related to the abstract, the math requires high concentration, even teachers can also be a cause for example the exact method used by teachers in presenting the material so that it can make students feel interested. [4].

The increase in the value of national standardized tests of mathematics in particular subjects receive different responses from grade XII students senior high school Angkasa lanud 1st Medan. Some students responded positively to the increase in the value of the national exam standard. Indirectly increase in value of the national test standards, especially in math can encourage high school students of class XII senior high school Angkasa lanud 1st Medan. For example, hours of learning mathematics is added, as follows tutoring, repeat - the lessons have been passed back and talk to the teacher about the material included in the national exam later.

Indirectly increase in value of the national test standards, especially in math can encourage high school students of class XII senior high school Angkasa lanud 1st Medan to study harder. The increase in the value of national test standards change the way students learn positive effect on learning achievement or could have no effect at all on mathematics achievement depends on each students lived.

Based on the background of the problem, researchers only limit is matter how much influence the increase in national test scores on student achievement in the XII grade of senior high school at Angkasa lanud 1st Medan. The purpose of this study is to determine how much influence on the rising value of the standard national exam mathematics achievement of students the XII grade of senior high school at Angkasa lanud 1st Medan.

II. METHODOLOGY

This conducted in senior high school Angkasa lanud 1st Medan in March 2009. The population of this research that all high school students of XII grade senior high school Angkasa lanud 1st Medan that consists of three classes totaling 105 people. Samples of this study were taken using random sampling technique which takes randomly from the population. Sampel of this study is 51 students of grade XII senior high school Angkasa lanud 1st Medan. This type of research is descriptive research because the purpose of this study is to determine the effect of the increase in value of the national exam standard. According Sudjana [6] "is a descriptive study that describes the research methods and interpret the object in accordance with what is".

The variables used in this study there are 2 kinds of the dependent variable and independent variables.

1. Variables dependence of national exam standard value (X)
2. Variable independence: mathematics learning achievement (Y)

Instrument data collection in this study there were 2 that uses a questionnaire and take a final semester report card value data class XII students in mathematic. Questionnaires were given to students of class XII contains materials that have been prepared in accordance with problems related to the rising value of national standardized tests are the attitudes of high school students of the XII grade of senior high school Angkasa lanud 1st Medan in facing the problem of rising value of the national exam standard.

The questionnaire item number 25, but only 15 items are fit for use according to the validation has been carried out. On each item questionnaire using Likert scale with alternative options "Strongly Agree", "Disagree", "disagree" and "Strongly disagree". Each choice answers were weighted as follows:

1. Option answer "Strongly Agree" rated four
2. options answer "Agree" rated three
3. options "do not agree" rated 2
4. options answer "strongly disagree" rated 1

To avoid the wrong choice the questionnaire expressed in two forms, namely statements that are positive and negative. The following statement of the questionnaire are positive and negative.

No	Indicator	Item Positive	Item Negative	Total item
1.	Attitude of students in support of the increase in value of the national test standards, especially in math	1, 4, 5, 15	3 2	6
2.	The attitude of the students towards the influence of rising national exam standard grades with mathematics achievement.	16, 17, 11, 13, 14.8, 9,	3, 5	9

III. RESULTS AND DISCUSSION

Based on the data obtained from the research, it was found despite the rise in value against the standard national exam mathematics achievement of students senior high school Angkasa lanud 1st Medan academic year 2008 / 2009. The national test standards make students Angkasa 1 Lanud Medan make students study hard to achieve his achievements, the students will not want to not pass the national exams, especially in math which have been less preferred by students. The achievement scores increased due to the additional hours outside of school hours learning, especially math. From the analysis of data have been obtained then the results of the correlation is $r_{xy} = 0.647$ which means that illustrate the relationship of variable X to variable Y is the influence of the increase in the standard national exams on student achievement the XII grade of senior high school Angkasa lanud 1st Medan. To see the success of the correlation coefficient was then tested using the t test. test result_t obtained was 7.5 and the price t_{table} with a significant level of 5% level of 95% is 2.23. Results obtained $t_{count} > t_{table}$ which means h_0 hrejected and a accepted that the influence of rising standards of the national exam (variable X) to students' mathematics learning achievement (Y). Then h_0 hrejected and a accepted that despite the rise in value against the standard national exam mathematics achievement of senior high school Angkasa lanud 1st Medan academic Year 2008 - 2009.

How much influence on the increase in value of the national test standards of learning achievement high school math class XII student at Angkasa 1st Medan searched using the formula obtained value determination is 41%. The effect of rising standards of national test scores senior high school Angkasa lanud 1st Medan field does not reach 50%, this is because not all students of the XII grade of senior high school Angkasa lanud 1st Medan that the increase in the value of the standard national exams affect their learning achievement becomes more well, and achievement that they can be caused by something - else.

IV CONCLUSIONS

The conclusion that can be drawn from this research that the national exam standard increment affect mathematics achievement of students of the XII grade of senior high

school Angkasa lanud 1st. The influence of the increase in the standard national exams on student achievement the XII grade of senior high school Angkasa lanud 1st Medan amounted to 41%.

REFERENCE

- [1] Arikunto, suharsimi. 2005. *Dasar – dasar Evaluasi Pendidikan (edisi revisi)*. Bumi Aksara: Jakarta.
- [2] Arikunto, Suharsimi. 2007. *Manajemen Pendidikan*. Rineka Cipta : Jakarta.
- [3] Arikunto, suharsimi. 2006. *Prosedur Penelitian*. Rineka Cipta : Jakarta.
- [4] Dimiyati, Mudjiono. 2006. *Belajar Dan Pembelajaran*. Rineka Cipta : Jakarta.
- [5] Lisnasari, Srie Faizah. 2008. *Perencanaan Pembelajaran*. FKIP UISU : Medan.
- [6] Sudjana. 2008. *Metode Statistika*. Tarsito : Bandung.
- [7] Sanjaya, Wina. 2008. *Perencanaan Dan Design Sistem Pembelajaran*. Kencana : Jakarta.
- [8] Tilaar. H. A. R. 2006. *Standarisasi Pendidikan Nasional*. Rineka Cipta: Jakarta.



THE
Character Building
UNIVERSITY