THE ANALYZING OF CRITICAL THINKING SKILLS ON STUDENTS OF HIGH SHOOLS GRADE X IN PLAJU AND SEBERANG ULU II DISTRICT

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Accepted: Sept 27, 2018 Published: October 31, 2018

ABSTRACT

Based on the teacher questionnaire statement in Plaju and Seberang Ulu II District, the teacher has measured critical thinking skills. The teacher interview results stated that students still did not master the critical thinking skills of Biology High School. The purpose of this study was to determine the percentage level of mastery of critical thinking skills of class X high school students in Plaju and Seberang Ulu II District. This research is a quantitative descriptive research; the sample used is a public high school representing the District of Plaju and Seberang Ulu II District. The results of this study indicate that, on average, the results of the percentage analysis of the level of student's critical thinking skills in class X high school in Plaju District is 49.46%, and Seberang Ulu II District is 56.52%. Both the percentage of indicators critical thinking skills in Plaju and Seberang Ulu II District are in the medium category.

Keywords: Critical Thinking Skills, teacher questionnaire.

Introduction

Education is a very important thing in life, and is useful for developing potential in individuals. One of the potential that can be developed that critical thinking skills. Khairunnisa (2016) states that hwa, critical thinking skills are thinking skills that involve cognitive processes in analyzing and evaluating and inviting students to think reflective of problems. The culmination of critical thinking skills is being able to make the best decisions from a number of alternative choices (Subali & Suyata, 2012). Achieve optimal results in the learning process, it requires active thinking, this means that the optimal learning process requires critical thinking from the learner, because critical thinking is very important in the process of learning activities (Ahmatika, 2015).

Critical thinking is an important skill for students, so critical thinking should be one of the activities that must be developed and taught in each subject, because critical thinking skills not inherited from birth and do not develop naturally (Cahyono, 2017). Indicator Critical thinking skills used in this study refer to indicators (Facione, 2013), see Table 1.

No	Skills	Sub Skills
1	Interpretation	
		 Grouping
		 Encode meaning
		 Clear meaning
2	Analysis	
		 Testing idea
		 Recognizing
		arguments
		 Recognize reasons and
		statements

No	Skills	Sub Skills
3	Conclusion	 Clear question Suspect alternative Assess the quality of arguments made using inductive or deductive considerations
4	Evaluation	 Assess credibility of statements Assess the quality of arguments Assess the quality of arguments made using inductive or deductive considerations
5	Explanation	Express resultsSupport proceduresPresenting arguments
6	Self- Regulation	Self-monitorSelf-improvement

(Facione, 2013)

The six indicators of critical thinking skills in table 1, can be measured using instruments that have been developed through questions that have referred to critical thinking skills. This is in accordance with the opinion of Ennis (1993) that, critical thinking instruments can be developed and improved through predetermined aspects and indicators of critical thinking. people who have critical thinking can evaluate then conclude a matter based on a fact to make a decision (Dwijananti & Yulianti, 2010). The instrument used to measure the critical thinking skills of class X high school students in Plaju and Seberang Ulu II Subdistricts, namely instruments in reasoned multiple choice questions. The of reasoned multiple use choice instruments overcome is to the shortcomings of the form of multiple choice questions that give students the

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opportunity to guess the answer to the problem, besides the use of reasoned multiple choice instruments makes it easier to measure the abilities of students, especially critical thinking skills.

Sagap, Husain, & Djirimu (2014) states that, the advantages of multiple choice questions reasoned that overcome the shortcomings of multiple choice questions. As well as having an advantage in detecting student misconceptions, because the teacher can see students' understanding, can minimize students' guessing answers and can determine the type of students' mistakes in a concept of understanding based on selected answers (Khotimah, 2014). Fadillah (2015) added that, to cover the shortcomings of choice questions. multiple the test questions in the form of reasoned multiple choices were used. This reason is to avoid students guessing and knowing the truth whether students really understand the questions or statements expressed and master the concepts.

Research Method

This research is a kind of quantitative descriptive research , data obtained from the sample population of the study were analyzed by looking for the percentage number. The population of this study were all high schools in the Plaju and Seberang Ulu II Districts.

The technique used in this study is *purposive sampling technique*. This sampling is based on the criteria used in the study which consists of Private High Schools and High Schools, state high school accreditation namely "A" and Private High School accreditation namely "B", the accreditation value of each Public High School is not less than 90 (> 90), and Private High School no more than 90 (<90). The name of the SMA which is the sample of the researcher can be seen in Table 2. The number of respondents in the study can be seen in Table 3.

Table 2. Sample of this research

No	Nama Sekolah	Nilai	Kec.	Akr.
1	SMA A	97	Plaju	А
2	SMA B	81	Plaju	В
3	SMA C	94	SU II	Α
4	SMA D	85	SU II	В
(BAN-	-SM, 2006)			

Kec = Distric Akr = Accreditation SU II= Seberang Ulu II

No	Nama Sekolah	Kec.	PD	Guru
1	SMA A	Plaju	135	1
2	SMA B	Plaju	23	1
3	SMA C	SU II	96	1
4	SMA D	SU II	21	1
	Jumlah		275	4

PD = Students

The data instruments used in this study were questionnaires, interview sheets, observation sheets, documentation, and tests in the form of reasoned multiple choice instruments. The question instruments used in this study have been developed by Hidayat, Harfian, and Fadillah in 2018.

The data analysis technique used is quantitative descriptive analysis, which is by describing the results of the analysis of students critical thinking skills of grade X high school in Plaju and Seberang Ulu II Districts. The results of the research data are obtained from the students' answer sheets, then analyzed by adding the scores according to the assessment rubric. The score obtained from all students in each sample of a high school school was combined based on the Districts of Plaiu and Seberang Ulu II. Data from the results of research in Plaju District and Seberang Ulu II District were analyzed using the Microsoft Excel 2007.

There are five categories in mastering critical thinking skills, namely very high, high, medium, low, and very low based (Azwar, 2014). The five categories of mastery of critical thinking skills are determined based on the formula adapted from Azwar (2014) (see table 4)

Table 4. Category of Students CriticalThinking Skills

No	Category	Average Score (%)
1	Very High	75,05 < X
2	High	$58,35 < X \le 75,05$
3	Middle	$41,65 < X \le 58,35$
4	Low	$24,95 < X \le 41,65$
5	Very low	$X \le 24,95$

X = Average score obtained bystudents

The formula used to find the percentage of mastery of critical thinking skills of class X high school students in Plaju and Seberang Ulu II Subdistricts in this study was adapted from Purwanto (2006). The percentage is obtained by dividing the score on critical thinking skills, which are answered correctly by students with maximum scores on indicators of critical thinking skills. Ika J mathematically written as follows:

$$NP = \frac{R}{SM} x 100$$

- NP = Percent value
- R = Score obtained from the indicators of critical thinking skills
- SM = maximum score from the indicator of critical thinking skills

100 = Fixed number

Results and Discussion

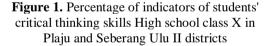
Data from the research results used in this study were obtained from answer sheets for reasoned multiple choice questions. The reasoned multiple choice instrument was used to measure the

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critical thinking skills of class X high school students in Plaju and Seberang Ulu II Districts. Question instruments are distributed to students after students receive ecological material learning. Data from the results of this study were analyzed using the Microsoft Excel 2007 program . After the data were analyzed, then the percentage of scores obtained and matched with categories of mastery of critical thinking skills were examined in Table 4.

The percentage results showed that the two Plaju sub-districts were 49.46% with the medium category, and the Seberang Ulu II sub-district was 56.52% with the medium category. The results of the percentage of critical thinking skills of class X high school students in Plaju and Seberang Ulu II Districts, see in Figure 1.





The percentage results in Plaju Subdistrict, it can be seen that the mastery of indicators of critical thinking skills, on indicators interpreting is 51.79% medium category, indicators analyze 55.77% with moderate categories, indicators evaluating at 38.47% with low categories, indicators referring to 51.05% with the medium category, the indicator explains 48.87% with the medium category, and the selfregulation indicator is 59.28% with the high category. The results of the percentage of critical thinking skills of class X high school students in Plaju District, can be seen in Figure 2.

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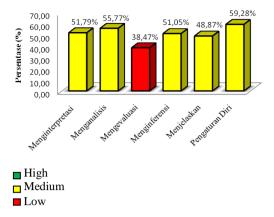


Figure 2. Percentage of indicators of critical thinking skills of class X high school students in Plaju District

Seen in Figure 2. Regarding the highest average percentage value, namely in the aspect of self-regulation amounting to 59.28% with a high category, and the lowest average percentage is the indicator evaluating at 38.47% with a low category.

Constraints experienced by high school teachers in Plaju Subdistrict in applying the measurement of critical thinking skills, which are constraints in making assessment sheets to measure the critical thinking skills of pe and students, because of the limited time that teachers have to make, this resulted in the need for alternative instruments to measure skills critical thinking, and limited knowledge possessed by high school students in Plaju Subdistrict, this statement was obtained from interviews, and high school teacher questionnaire sheets in Plaju District. The statement is in accordance with the observations of the implementation of the learning process, which is found that there are still students who are still less able to give an assessment and describe opinions on the material being studied. Limitations of knowledge possessed by students due to students who do not pay attention when the teacher is explaining the material being studied. This causes the low indicator to evaluate students, because in the learning process, the teacher provides

guidance to students in explaining the material being studied, so that students become more understanding about the material being studied.

Based on the results of interviews with high school teachers in Plaju District regarding the causes of high indicators of self-regulation of students, namely because students pay attention to the explanation of the material delivered by the teacher. In addition, from learning resources in the form of books and the internet, and students are used to working on evaluating questions, and students can get information from their peers.

Self-regulating in learning is а process of self-learners who can set up and manage your thoughts, feelings, desires, and the action to be taken (Friskilia S & Winata, 2018). One strategy applied in learning to optimize performance is learning based on selfregulation (Damayanti, 2015). Ahmar (2016) argues that, self-regulation is the skill of students to manage achievement strategies, determine targets, and think of everything related to achieving desired goals and ultimately able to evaluate their success in learning, thus causing them to have a strong drive to learn and actively participate in learning.

Istrivanti & Simarmata (2014) states that self-regulation becomes a matter that needs to be considered in carrying out developmental tasks as a teenager. Students who try to regulate themselves or manage themselves as much possible, will make students develop so that they reach the desired stage (Alfiana, 2013). Individual self-regulation activities attention. involve setting thoughts. behaviors and emotions simultaneously in an effort to design, control and direct selfbehavior to fit the goals to be achieved so that there is no gap between mindset and behavior (Ardina & Kencana, 2013).

Based on the results of high school teacher interviews in Plaju Subdistrict, the causes of low indicators evaluate students because students do not pay attention when the learning process takes place, and the limitations of students in utilizing learning resources. Arifin (2012) states that, evaluation is an activity of giving value and meaning rather than something. The purpose of evaluation in the learning process is to find out the effectiveness and efficiency of the learning system widely (Asrul, Ananda, & Rosnita, 2014).

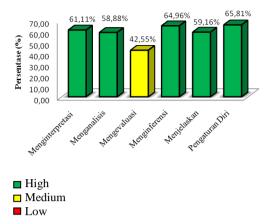
Evaluation of student achievement. into four First formative divided evaluation, which is intended to improve the teaching and learning process, which is carried out by the teacher. Both evaluations. summative which are intended for the purpose of determining the numbers of progress or learning outcomes of students, are carried out by the teacher in a one-semester program. Third is placement evaluation, which is intended to place students in learning situations or educational programs that are in accordance with their abilities. The four diagnostic evaluations, which are intended to help solve learning difficulties experienced by certain students (Ahmad, 2015).

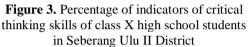
The way to improve critical thinking skills in evaluating learners' indicators is to improve the quality of learning, management of classroom management, and familiarize students with problem training, so that students are able to understand the material taught by high school teachers in Plaju District. the results of follow-up interviews with high school teachers in Plaju Subdistrict, on ways to improve evaluation skills, namely by giving training assignments in the form of evaluating, changing teaching methods by the teacher. The teacher must master the material taught, so that the material is conveyed well to students and the teacher must improve the mastery of management in the classroom.

The increase in the quality of learning can be achieved if the learning process in the class takes place well, efficiently and effectively. Improving student learning evaluation, it is necessary to prepare a test (Tabroni, 2007). Tests in the form of problem training by teachers for students is one of the activities of evaluating students, with the aim of exercising the ability of students to evaluate a given problem. Clarified by Arifin (2012) that, giving treatments such daily meeting, final semester as examinations, block examinations, written tests, oral tests, action tests, and so on are the basis of the part of the evaluation system itself in order to develop students' abilities.

Class management is a conscious effort to organize the activities of the teaching and learning process systematically, so that the conditions of the teaching and learning process run well goals can and the be achieved. Components of classroom management skills related to the creation, maintenance of optimal learning conditions consist of skills, responsiveness, dividing attention, and focusing group attention (Hilali, 2012).

The percentage results in Seberang Ulu II District, regarding mastery of indicators of critical thinking skills, on indicators interpreting 61.11% with high categories, indicators analyzing 58.88% with high categories, indicators evaluating at 42.55% with medium categories, indicators inference of 64.96% with a high category, the indicator explained 59.16% with a high category, and the selfregulation indicator was 65.81% with a high category. The results of the percentage of critical thinking skills of class X high school students in Seberang Ulu II District, see Figure 3.





The percentage of indicators of critical thinking skills in Seberang Ulu II Subdistrict, which has the highest average percentage value, is on the self-regulation indicator of 65.81% with a high category, and the lowest average value of the indicator evaluates at 42.55 % with medium category.

Based on the results of interviews with teachers in Seberang Ulu II Subdistrict. regarding the problems experienced by high school teachers in applying measurements of critical thinking skills namely students who pay less attention to the learning process, and lack of ability of students to analyze, further understanding is needed to improve students' critical thinking skills.

Based on the observation results of the learning process, it was found that students were still not able to give an opinion about the conclusions of the learning activities, even though high school teachers in Seberang Ulu II Subdistrict had explained the material taught in the classroom, so that the students were still guided by the teacher so participants students understand the material learned, are able to give opinions about problems, and draw concepts or draw conclusions from the results of learning activities. Based on the results of high school teacher interviews in Seberang Ulu II Subdistrict, the cause of the high self-regulation indicators possessed by students is the high level of understanding, experience, and breadth of learning resources possessed by students.

Students who have higher selfregulation, also critical thinking skills (Ahmar, 2016). Kusaeri & Mulhamah (2016) states that, metacognition, motivation, and behavior as aspects of self-regulation contribute significantly to student achievement. Students who utilize metacognition, motivation, and behavior within themselves will be able to understand their abilities.

The skills of students regulating themselves in the learning process, are important activities in the learning process of students (Arianggi & Suprihatin, 2010). Self regulation plays an important role in achieving students' learning goals, especially in lessons that are classified as difficult and require high analysis. Self-regulation is one of the main drivers of human personality, through self-regulation, students will be able to achieve optimal achievements during the education process (Hidayat, 2013).

According to Alfiana (2013), that the person responsible for carrying out the task can make the person have a separate training to regulate themselves, so that the regulation of that person develops. That is, the training of students in organizing themselves according to the activity schedule on a regular basis can develop self-regulation. indicators of This statement is in accordance with Mukhid (2008) that, the characteristic of learners self-regulated learning is that they see themselves as agents of their own behavior, they believe learning is a proactive process, they motivate

themselves and use strategies i-strategies that enable them to improve their desired academic results.

Based on the results of interviews with high school teachers in the Seberang Ulu II sub-district, the cause of the low indicator evaluates the participants because it does not pay attention when the learning process is direct, and the limitations of participants utilize learning resources. Mahirah (2017) states that e valuation is defined as a systematic process for determining something value (provisions. activities. decisions. performance, processes, people, objects and others) based on certain criteria through assessment. Evaluation is the skill to find and prove the fault of a problem (Shanti, Sholihah, & Martyanti, 2017). The purpose of evaluation is to determine quality rather than something, especially with regard to values and meaning (Arifin, 2012).

Based on the results of follow-up interviews with high school teachers in Seberang Ulu II Subdistrict to improve students' critical thinking skills on indicators evaluating students namely by training questions or question and answer, holding group learning between friends to share information, and improve classroom management.

Sujati (2006) explains that, the purpose of class management is to create optimal classroom conditions for the implementation of learning. a teacher can only be said to have carried out learning activities, if in students the behavior changes occur as a result of these activities. This means that the learning process has a positive impact on the development of students.

Apart from managing the class, the teacher also gives treatment to students to find out whether students have understood the material being taught, giving the treatment in the form of a practice test test sheet. Arifin (2012) states that, giving treatments such as daily tests, end of semester exams, block exams, bills, written tests, oral tests, action tests, and so on are the basis of part of the evaluation system. Enhancing evaluation of learners, necessary preparation of the test (Tabroni, 2007).

The results of the discussion of this study indicate the inability of students, to provide assessment arguments and measurement of the results of learning activities on the material taught, this is because students who do not pay attention when the teacher or classmates are explaining the material being studied, and lack of interest learn from the students themselves. Causing the value on the indicators of critical thinking skills evaluating the students of Class X High School in Plaiu and Seberang Ulu II Subdistricts to be low.

These conditions can be overcome by the ability of the teacher in managing the class, so that students can be interested in paying attention to the teacher or friend when explaining the material being studied, so that students can understand the material being studied. Coupled with the provision of teacher treatment of students, to find out until where the understanding of students in understanding the material that has been studied in the form of problem practice tests. This illustrates the ability of students to evaluate can increase.

Students' critical thinking skills can be improved from the way they learn, if the way of learning is in accordance with the personality of the students then the learning outcomes will be optimal, if not appropriate then the learning outcomes will occur otherwise. Like the research conducted by Rokayana & Efendi (2017) which states that, a person's learning style influences his critical thinking skills.

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Conclusion

Based on the result and discussion, it can be conclude that the results of the percentage analysis of the mastery of critical thinking skills of class X high school students in Plaju district, the highest indicator is that there are 59.28% self-regulation indicators with high categories, and the lowest indicator is evaluating 38.47% in the low category. The results of the percentage analysis of the mastery of critical thinking skills of class X high school students in Seberang Ulu II district, the highest indicator is that there 65.81% self-regulation are indicators with a high category, and the lowest indicator on the indicator evaluates 42.55% with the moderate category.

Suggestions that can be submitted based on the results that the teachers and schools are advised to train and improve students' critical thinking skills. The next researcher is advised to conduct research on indicators of critical thinking skills based on other experts, and this research is expected to be a reference for future researchers.

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