



The Role of Student Worksheet Media in Moderating Student Achievement

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Abstract

The purpose of this research is to analyze the impact of student's independence (learning by self motivation) and readiness (condition for ready to learn) moderated by student worksheets media on student's achievement in examination score. The survey is a method used to analyze the purpose. Data collection techniques used in this research are documentation and survey/questionnaire used to learn the student's responses on the independent learning, learning readiness, and Student Worksheets learning media. The population are 252 students at class eleventh and selected by probability sampling. The sampling technique in this research was using probability sampling by simple random sampling with the amount of sample are 155 students. The sample is calculated using the Slovin formula with an error rate 5%. The multiple regression with moderator variable is used to analyze the data. The finding of the research suggests that student's independence and readiness in studying has partially a positive influence on student's achievement; student worksheets media able to moderate the influence of both student's independence and readiness in studying on student's achievement.

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INTRODUCTION

The development of a nation is affected by the quality of its education, which is a process to build people in developing their potential to be able to face any changes and problems that arise. Therefore education has the purpose to upgrade the quality of people. One of the marks of the materialization of national education's aim is the execution of learning activities and the success in learning. Learning activity is the main action of the education with the purpose to develop the potential of the student.

According to the bloom taxonomy theory (Benjamin, 1956), the purpose of learning is divided into three fields, they are cognitive, affective, and psychomotor. The cognitive field comprises of six categories, such as (a) Knowledge, is defined as the behavior of remembering or knowing the learning material that has been learned before (b) Comprehension, is defined as the ability to gain the essence of the learning material with their own language (c) Application, is defined as the ability to apply the learning material that has been learned in a new situation (d) Analysis, is defined as the ability in elaborating a fact, concept, opinion, assumption and such on its elements. (e) Synthesis, is defined as the ability to combine the parts into building a new structure (f) Evaluation, is defined as the ability to assess an opinion, idea, product, method, and the sort.

The cognitive field can be measured by achievement. Achievement is an indicator to assess the level of the student's comprehension of a learning matter (Slameto, 2010). Rohmah (2015) said that four factors affecting a student's achievement, those are environmental factors, instrumental factors, physiological condition and psychological condition. Another opinion from Djamarah (2011) suggests that the factors affecting the student's achievement are divided into factors inside the students/internal factors and factors from outside of the students/external factors. Internal factors/factors inside the students including physiological factors (health and disabilities), and psychological factors (intelligence, concern, interests, talents, maturity, readiness, and motive). While factors from outside of the students/external factors including environmental factors and instrumental factors comprise of curriculum, teachers, tools, and facilities including learning media.

From those factors mentioned above, the most dominant factor affecting the student's achievement found in the field observation is the internal factor of independence and learning readiness. According to Steinberg (1993), independent learning is defined as autonomy, which is the ability to manage own selves marked by not depending on other people's emotional support. Steinberg divided autonomy into three aspects : (1) Emotional autonomy, can be defined as one's ability to manage their own emotion. (2) Behavioral autonomy, can be interpreted as one's ability to decide an option in making a decision without any intervention from other people. It does not mean that someone does not need any input from others, but, if necessary then only use other people's opinions as a reference in making a decision. (3) Values autonomy, can be interpreted as one's ability to resist the pressure to follow other people's demands on the belief of values.

These can be observed even in the early observation that the learning independence of the students is still low, apparent from the less active habit of the students in the learning activity. For example, the student is still lacking in confidence when given the opportunity to ask and still needs to be ordered to ask whenever there is any presentation. Moreover, it is also proven that many students still have not fully deepened the learning matter at home. When a pre-test was given, there were still many students that could not answer the questions and when working on the questions given by the teachers there were still many students that neglect their tasks.

Other than that, the readiness of the students to study is still lacking. There is a learning law in connectionism theory published by Thorndike (1923), which is the law of readiness. According to Thorndike (1923), the Law of Readiness means that someone that intends to learn should be in a good condition and ready to achieve success then someone is demanded to have a readiness, whether physical or psychological. Physically ready means that someone is not in a sick condition, which may disturb their concentration. And then psychologically ready means that someone whose mind is no longer disturbed, such as having a mental disorder. Aside from physically and psychologically ready, someone should also ready in maturity in mastering the knowledge and its underlying skills. So, readiness is the tendency to act.

This can be observed when many students did not bring their books and worksheets, and the students tend to chat with their deskmates. There even a student that sleeps when the learning activity is taking place, which means the student is still not physically nor psychologically ready to attend to the learning activity, so that these things may affect the student's learning achievements.

High achievements can be observed from the student's score that fulfills or passing the KKM (Kriteria Ketuntasan Minimal/Minimum Passing

Score). So if a student gain score above the minimum passing score then that student can be called passed. Conversely, if a student gains a score below the minimum passing score, then that student can yet be called passed. We learn that the minimum passing score of the Economy subject in SMA Negeri 5 Purwokerto is 75. As for the score of the odd semester's final exam of the student of XI IPA and IPS of the school year 2019/2020 in the subject of Economy can be seen in Table 1.

Table 1. Score of Odd Semester's Final Examination of XI IPA and IPS students in Economy Subject

No	Class	KKM	Students Count	Passed	Failed	Average score
1.	XI IPA 1	75	36	14	22	73,38
2.	XI IPA 2	75	36	23	13	74,16
3.	XI IPA 3	75	36	18	18	72,44
4.	XI IPA 4	75	36	13	23	72,80
5.	XI IPS 1	75	36	21	15	73,64
6.	XI IPS 2	75	36	12	24	73,00
7.	XI IPS 3	75	36	12	24	73,22
Total			252	45%	55%	73,23

Source : Economy Teacher of SMA Negeri 5 Purwokerto

Based on Table 1 above, from 7 classes of XI IPA and IPS the average score of the semester's final examination in the economy subject is 73,23. This can be concluded as the low achievement of the students observed from the average score that is still below the minimum passing score. This low achievement is a problem that is estimated to be affected by the learning independence and readiness that is still low.

Besides affected by internal factors learning independence and readiness, student's achievement is also estimated to be affected by external factors, such as media used in the learning process. Media plays an important role in the learning process as an effective and efficient tool (Rosyid, et al (2019). While learning media is a tool or any form of channels as an intermediary or messenger from the sender (teacher or educator) to the receiver (students) with the purpose to give stimulus towards the students and help the teacher and student in the learning process to achieve the aim of the study (Rosyid et al., (2019). It means that the media has the contribution to create an optimal learning process to support the student's achievements.

According to Salomon (1979), a media has the ability to deliver the contains of material via a certain symbol system. Furthermore, Salomon suggests that

“Effectivity of a media depends on the suitability with students, contents, and tasks”. We understood that media is something complex that needs more than just a symbol system. Media is the unity of technology, material, learning situation, and symbol system that have lots of differences. In its use, media in the learning process take precedence as a device that can give more tangible, concrete, and simple information. So that it can create a more effective learning process.

One of the learning media used by the student and teacher at some schools is LKS (Student Worksheets). Student Worksheets used generally bought by the students and were not made directly by the teachers. But based on the observation we found that the Student Worksheets used in SMA Negeri 5 Purwokerto is made directly by the economy teacher and used straight in every lecture. Student Worksheets made by the teachers are composed of sheets that contain materials, steps, questions, and tasks that have to be finished by every group in every lecture.

Student Worksheets is a learning media that has become the recommendation from the National RPP (Rencana Pelaksanaan Pembelajaran/Lesson Plan) editor team because it contains Hots questions and individual tasks that are in accordance with the

demand of the 2013 curriculum. Besides, in the demands of 2013 curriculum in this Student Worksheets is the use of scientific approach, wherein the learning process, the parties involved is not only the teacher but also students, and the students are expected to be able to think critically, actively involved in the discussed matters, cooperate with their peer group so they can be independent, ready to learn and can get a higher achievement.

Qomario and Putry (2018) said that Student Worksheets is a printed learning media as a helping tool to deliver the information from the educator the student in the learning process. Another research by Vevi (2012) said that Student Worksheets is also a learning media, where Student Worksheets become the learning source and learning media depending on the design of the learning activity. Other than that, Student Worksheets also function to ease the delivery of the material and information required and is time-effective.

The purpose of this research are 1) to analyze the effect of independent learning on the achievements; 2) to analyze the effect of learning readiness on the achievements; 3) to analyze the effect of Student Worksheets learning media on the achievements; 4) to analyze the effect of independent learning on the achievement moderated by Student Worksheets learning media 5) to analyze the effect of learning readiness on the achievement moderated by the Student Worksheets learning media.

If a student has high learning independence, then that student is expected to obtain a high achievement. A student can be said to be doing independent learning when that student has the intention to learn something, then doing it deliberately or without any help from other people. For example, the student is active and creative during the learning process, asking voluntarily, able to manage and be responsible for their learning activities, so that they can elevate their achievements.

In line with the research performed by Septiyaningsih (2017) that showed that there is a positive and significant impact of independent learning on the achievements of the students of UNY's Economy Education batch 2013. Another research by Palupi (2017) showed that there is a positive impact of independent learning on the Accounting achievements of the students of XI IPS of SMA Negeri 1 Srandakan. The impact of independent learning on achievements

on those research have positive effects because the student with high independent learning will be able to be responsible for their own decision to obtain high achievements.

H₁ : Independent learning has a positive effect on achievements

The result of the research by Rumanda et al (2017) showed that there is a positive impact and a significant variable effect of the student's learning readiness on the achievements of the students of XI grade of IPS department of SMA Negeri 8 Jambi City. In line with another research performed by Sujai et al (2017) that showed that there is a positive effect of learning readiness to achievements in the subject of Economy on the student of XI IPS at SMA PGRI.

Learning readiness is estimated to have a positive effect on achievements because the student that has the readiness will have full concentration, so every activity can be performed optimally. So, it can be said that the student with a good learning readiness, then their achievements will also follow suit. While if a student does not have any readiness in facing the learning process, then it will make it difficult for them in understanding the material, and hindering them in their learning progress, so their achievement will not be optimal.

H₂ : Learning readiness has a positive effect to achievements.

Winarsi (2014) said that Student Worksheets as one of the devices of the learning process in the form of a guide arranged and given to the students and have a huge role in the learning process. It means that Student Worksheets can help the teachers in directing their students to find the concepts through individual or group activities and may ease the teachers in monitoring the success of their student's learning to achieve the learning targets.

Some research explained the effect of Student Worksheets learning media to achievements. The result of the research by Fitriani (2015) showed that the use of Student Worksheets as a learning media give a positive and significant effect on the achievements of the VII grade student in the subject of integrated IPS at MTs Darul Quran in Labuapi district. This is in line with the result of the research by Masyitah (2017) that said that Student Worksheets can improve the achievements on the subject of economy to the student of X IPS of SMA Negeri 8 Banda Aceh. This can be observed from the positive student responses to the use

of Student Worksheets in improving their achievements and from the effectiveness of Student Worksheets in the learning process. The effectiveness was proven from the study result of the students after using the Student Worksheets where the students are more actively asking questions, and trying to understand the material when the learning process is ongoing.

Based on other research, Winarsi (2014) found that first, there is a significant difference in the independent learning of the VII grade students at SMP Negeri 3 Tempel between the class using Student Worksheets and those with the conventional method. The positive impact is that the independent learning of the students using Student Worksheets learning media is higher than those with the conventional method. Second, there are positive and significant differences in the impact on the achievements between the students, where those using Student Worksheets is higher than the students with the conventional method.

Then from the previous research result delivered by Septiyaningsih (2017) and Palupi (2017), we can conclude that there is a positive and significant effect from independent learning to achievements in some education levels. Aside from learning, learning readiness is also taking effect on the achievements. Based on the previous research result by Rumanda et al (2017), Sujai et al (2017), we can conclude that there is a positive and significant effect from learning readiness to achievements in some different studies.

A student's achievements can be affected by many factors from internal and external. Independent learning and learning readiness are internal factors. While one of the external factors is the learning media that can strengthen or weaken the correlation between independent learning and readiness on achievements. So the correlation between independent learning and

readiness has a positive effect to the achievements will be stronger if the role of Student Worksheets learning media is effective and vice versa.

A Student Worksheets can moderate the independent learning and readiness if it fulfills the indicators of an effective Student Worksheets, such as giving the knowledge, attitude, and skill to learn, make the students more active in the learning process, as a vessel to practice and check the comprehension on the material presented (Fitriani, 2014). An effective Student Worksheets learning media can moderate the independent learning and readiness so it will improve the achievements. Besides, the students will be independent with the demand of tasks in the Student Worksheets, students will have a bigger role to play, Student Worksheets learning media gives the material to the students so that they will have a higher readiness.

Based on the literature review and previous research results, then we can formulate the hypothesis of this research as follows :

H₃ : Learning media has a positive effect on the achievements

H₄ : Student Worksheets learning media moderates the effect of independent learning on achievements.

H₅ : Student Worksheets learning media moderates the learning readiness on achievements.

METHOD

This research is a quantitative research using survey method. The objects of this research are the student's achievements, independent learning, learning readiness, and Student Worksheets learning media as the moderation variable. The model in this study can seen in figure 1.

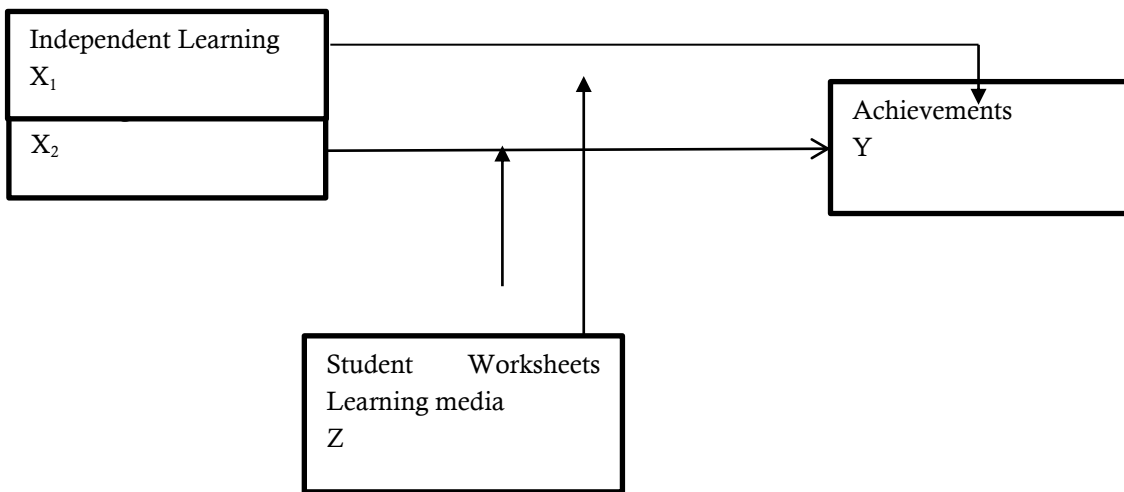


Figure 1. Research Model
 Source : primary data processed, 2020

The population consists of 7 classes, which are the classes of XI grade of IPA and IPS in SMA Negeri 5 Purwokerto with the amount of 252 students. The sampling technique in this research was using probability sampling by simple random sampling with

the amount of sample are 155 students. The sample is calculated using the Slovin Formula with an error rate 5%. The number of research samples of each class can be seen in the table 2.

Table 2. The number of research samples of each class

Class	Total Students	Sample
XI IPA 1	36	$36/252 \times 155 = 22,1$
XI IPA 2	36	$36/252 \times 155 = 22,1$
XI IPA 3	36	$36/252 \times 155 = 22,1$
XI IPA 4	36	$36/252 \times 155 = 22,1$
XI IPS 1	36	$36/252 \times 155 = 22,1$
XI IPS 2	36	$36/252 \times 155 = 22,1$
XI IPS 3	36	$36/252 \times 155 = 22,1$
Jumlah	252	154,7/155

Source : primary data processed, 2020

Data collection techniques used in this research are documentation and survey/questionnaire used to learn the student’s responses on the independent learning, learning readiness, and Student Worksheets learning media. The survey used in this research is a closed survey. Data analysis techniques used in this research are multiple linear regression analysis,

moderation variable regression analysis, model accuracy test (F), and t test.

RESULT AND DISCUSSION

Based on the linear regression analysis using SPSS 22 program for Windows, we obtain the results displayed in Table 3.

Table 3. Multiple Linear Regression Analysis

Model	Coefficient	t stat	Prob. Value
Constant	58,928	25,734	,000
Independent learning	,098	2,007	,047
Learning readiness	,173	3,054	,003
Student Worksheets learning media	,125	2,363	,019

Source : primary data processed, 2020

Table 3 shows that the coefficient for independent learning variable is 0,098 with t stat = 2.007 with significance = 0,047 < 0,05 which means that Ho is rejected and Ha is accepted, so we can conclude that there is a positive effect of independent learning on the achievements. The coefficient for learning readiness is 0,173 with t stat = 3.054 with the significance = 0,003 < 0,05 which means Ho is rejected and Ha is accepted, so we can conclude that there is a positive effect of the learning readiness on the achievements. While the coefficient for Student Worksheets learning media is 0,125 with t stat = 2.363 with the significance 0,019 < 0,05 which means Ho is rejected and Ha is accepted, so we can conclude that there is a positive effect of Student Worksheets learning media on the achievements.

Based on the moderation variable analysis the effect of independent learning on achievements with Student Worksheets learning media as the moderation variable can be seen in Table 4.

Table 4. Moderation Variable Analysis

Model	T		
	B	t	Sig.
1(Constant)	84.3856.073		.000
KMB	-.483	-1.323	.188
MPL	-.362	-1.084	.280
KMB_MPL	.014	1.665	.098

Source : primary data processed, 2020

Based on Table 4 above, the result of moderation regression analysis of independent learning on achievement with Student Worksheets learning media as the moderation variable using SPSS program yields the following regression formula : $PBL = 84.385 - 0,483_{KMB} - 0,362_{MPL} + 0,014_{KMB \cdot MPL} + e$. We can take an analysis that : (1) Constant value of 84.835 can be indicated that if independent learning, Student Worksheets learning media, and interaction between independent learning and Student Worksheets

learning media have constant value then the result of achievement will probably scored as 84.835. (2) Based on the moderation test, the Student Worksheets learning media variable that was hypothesized as moderation variable to achievement is not significant and the variable of interaction between independent learning and Student Worksheets learning media was also not significant. So we can conclude that the Student Worksheets learning media is not a moderator variable, but only as an independent variable. Based on the significance test of moderation regression coefficient of independent learning on achievement with Student Worksheets learning media as moderating variable, in which the test results in the significance of 0,000 < 0,05, then we can conclude that Student Worksheets learning media variable directly moderate the independent learning variable on the achievements.

Analysis result of the effect of learning readiness on achievements with Student Worksheets learning media as moderating variable can be viewed in Table 5.

Table 5. Moderating Variable Analysis

Model	T		
	B	t	Sig.
1(Constant)	94.5877.009		.000
KSB	-.774	-2.021	.045
MPL	-.678	-2.039	.043
KSB_MPL	.024	2.542	.012

Source : primary data processed, 2020

Based on Table 5 above, the result of moderating regression analysis of learning readiness to achievement with Student Worksheets learning media as moderating variable using SPSS program yields the following regression formula : $PBL = 94.587 - 0,774_{KSB} - 0,678_{MPL} + 0,024_{KSB \cdot MPL} + e$. We can take an analysis that : (1) Constant value of 94.587 can be indicated that if learning readiness, Student

Worksheets learning media, and interaction between learning readiness and Student Worksheets learning media have constant value then the result of achievement will probably be scored as 94.587. (2) moderation test on Student Worksheets learning media variable that was hypothesized as moderating variable to achievements is significant and the variable of interaction between learning readiness and Student Worksheets learning media is also significant. So we can conclude that Student Worksheets learning media is a quasi moderating variable. Based on the significance test of moderation regression coefficient of learning readiness on achievements with Student Worksheets learning media as moderating variable with the significance of $0,000 < 0,05$ then we can conclude that Student Worksheets learning media variable is directly moderating the effect of learning readiness on the achievements.

To learn about the effect of independent variable partially—which is independent learning, learning readiness, and Student Worksheets learning media—on the student's achievements, we used t test. Every independent variable has a partial effect to the dependent variable. As for the magnitude of each effect is as follows : **first**, the result of t test for the independent learning variable gained the t stat 2.007 with a significance level of 0,047 with the limit of significance value 0,05, while the score of t critical with the degrees of freedom : $n-k = 155-3 = 152$ is 1.655. This means that $t \text{ stat} > t \text{ critical}$, which means that H_0 is rejected and H_a is accepted.

Second, the result of t test for the learning readiness gained the t stat of 3.054 with a significance level of 0,003 with the limit of significance value 0,05, while the score of t critical with the degrees of freedom : $n-k = 155-3 = 152$ is 1.655. This means that $t \text{ stat} > t \text{ critical}$, which means that H_0 is rejected and H_a is accepted. **Third**, the result of t test for the Student Worksheets learning media gained the t stat of 2.363 with a significance level of 0,019 with the limit of significance value 0,05, while the score of t critical with the degree of freedom : $n-k = 155-3 = 152$ is 1.655. This means that $t \text{ stat} > t \text{ critical}$, which means that H_0 is rejected and H_a is accepted.

Fourth, the result of t test suggests that the Student Worksheets learning media is moderating between independent learning and achievements gained the t stat of 1.665 with a significance level 0,098 with the limit of significance value of 0,05, while the

score of t critical with the degrees of freedom : $n-k = 155-3 = 152$ is 1.655. This means that $t \text{ stat} > t \text{ critical}$, which means that H_0 is rejected and H_a is accepted. **Fifth**, the result of t test suggests that the Student Worksheets learning media is moderating between learning readiness and achievements gained the t stat of 2.542 with a significance level of 0,012 with the limit of significance value of 0,05, while t critical with the degrees of freedom : $n-k = 155-3 = 152$ is 1.655. This means that $t \text{ stat} > t \text{ critical}$, which means H_0 is rejected and H_a is accepted.

Effect of Independent learning on Achievements

The analysis result showed that independent learning has a positive effect on achievement. Based on the study performed by the researcher, from 13 items of positive and negative questions, most of the respondents agreed that they have high independent learning and fulfills five indicators that showed high independent learning. As for the highest score out of those 13 question items is item 2 of the indicator of awareness on the purpose of learning that the respondent is independent and aware of their learning purposes to obtain high and satisfying achievements. Then the lowest score is item 13 of the indicator of learning efficiency, in which the respondents should learn about the economy subject material first before being taught by the teacher.

This result is supported by the research performed by Palupi (2017) that said that independent learning has a positive effect on the achievements in accounting for the student of XI IPS SMA N Srandakan. While the research by Septiyaningsih (2017) said that independent learning has a positive and significant effect on the achievement of the economy major students of UNY batch 2013. So if the student's independent learning is high then the achievements obtained by the students will be improved.

Effect of Learning Readiness on Achievements

The analysis result showed that learning readiness has a positive effect on achievements. Based on the study performed by the researcher, from 11 items of positive and negative questions, that most respondents strongly agreed that they have high learning readiness and fulfill four indicators that showed that their learning readiness is high. The higher a student's learning readiness, the higher the

achievements that they will get. As for the highest score out of those 11 question items is item 4 of the indicator of emotional conditions that showed that the respondents are always praying before the learning activities begin. Then the lowest score is item 7 of the indicator of the need, motive, and learning purpose in which the respondents do not take notes on the economy subject material that is considered as necessary.

This research result is supported by the study performed by Sujai et al., (2017) that said that learning readiness has a positive effect on the achievement of the economy subject of the XI IPS students of SMA PGRI as much as 24,6%, while the other variable is 75,5%. Other research performed by Rumanda et al., (2017) said that learning readiness has a positive and significant effect on the achievement of XI grade student in the IPS department of SMA N 8 Jambi City as much as 88,7%, while the rest of 11,3% is the contribution of careless factors.

Effect of Student Worksheets Learning media on the Achievements

Based on the analysis result we learn that Student Worksheets learning media has a positive effect on achievement. Based on the study performed by the researcher, from 14 items of positive and negative questions, the respondents agreed that the use of Student Worksheets learning media have been effective. As for the highest score out of 14 question items is item 14 of the indicator of checking the comprehension level on the material that had been presented, in which with this Student Worksheets learning media, the respondents often given tasks to discuss with their group or deskmates and then the result is discussed and presented. In this case the Student Worksheets learning media used is effective and can improve the achievements. Then the lowest score is item 8 of the indicator to make the students more active in the learning activities, which means that Student Worksheets learning media is helping the respondents to be independent in studying.

This research result is supported by the study performed by Masyitah (2017) that said that Student Worksheets media can improve the achievements on the economy subject of the student of XI IPS in SMA N 8 Banda Aceh. While the research performed by Fitriani (2015) said that Student Worksheets media has a positive and significant effect on the achievement of

VII grade student on the subject of Integrated IPS in MTs Darul Quran in Labuapi district. This research also suggests that Student Worksheets are one of the important factors that affect the participation of the students in the learning process so their achievements can be gained optimally. Besides, Student Worksheets is a media that ease the student and teacher in the learning process, because Student Worksheets contain the summary of the materials unlike the textbooks, so it is easier to comprehend and contains various practices. Student Worksheets also ease the students in guiding their students in the learning process. This showed that Student Worksheets is a more effective and efficient medium in the learning process whether it is of an individual or a group.

Effect of Independent Learning on the Achievements Moderated by Student Worksheets learning media

Based on the analysis result we learn that Student Worksheets learning media can moderate between independent learning and achievements but does not have a significant effect. If the use of Student Worksheets is effective, then the student's independence will also be good, and good independence will also lead to good achievements. This is because, with the use of Student Worksheets, the students will be independent in learning, helping the students to be independent in studying, be more active, get lots of practices and studying continuously, have more comprehension on the material, get motivated to studying and doing tasks, have the awareness to study and get achievements.

This research result is in accordance with the theory published by Sumiati (2011:172) that said that the Student Worksheets arrangement has the purpose to motivate the students to study independently. By being independent, the achievements gained by the students will get higher. Aside from that, according to the research by Devianti (2011), Student Worksheets can develop the students' independence outside the teacher's supervision. Therefore Student Worksheets can be used to self-teach, educate the students to be independent and be responsible. So Student Worksheets learning media can moderate the effect of independent learning on achievements.

Effect of Learning Readiness on the Achievements Moderated by Student Worksheets learning media

Based on the test result, the positive effect between learning readiness and achievements will be stronger if Student Worksheets learning media can be used effectively. The student's learning readiness is improved with Student Worksheets media. The questionnaire result showed that the students are more ready to study when using Student Worksheets media, which can be seen from how good the physical and psychological condition and also their emotional condition, skills and knowledge, and their readiness to comprehend the material without being instructed. This is because Student Worksheets media give knowledge, attitude, and skill to learn, making the students more active in the learning process, as the vessel for practices, and to check their comprehension level on the material presented. In other words, the existence of an effective Student Worksheets learning media can improve the learning readiness of the students, and vice versa. So the achievements gained are as expected.

This research result is in line with the study performed by Afifurahman (2016) that said that Student Worksheets media is very helpful for the students in the learning process, automatically with Student Worksheets media the students can learn the material before and during the learning process so they can be more ready to study at school because at least they had read it at home so the student's achievements can be more optimal. Aside from that, according to Sumiati (2011:172) the Student Worksheets arrangement has the purpose to prepare the students to be ready to learn before the learning process begins. So Student Worksheets learning media can moderate the effect of learning readiness on achievements.

CONCLUSION

Based on the data analysis and the discussion elaborated above, then we can draw the conclusion that : 1) Independent learning has a positive effect on the achievements; 2) Learning readiness has a positive effect on the achievements; 3) Student Worksheets media has a positive effect on the achievements; 4) Independent learning affects the achievements with Student Worksheets learning media as moderator variable having positive values so it will strengthen the effect of independent learning on the achievements; 5) Learning readiness affects the achievements with Student Worksheets learning media as moderator

variable having significant and positive values so it will significantly strengthen the effect of learning readiness on the achievements.

Based on this research result, then the following implications may be delivered : 1) Independent learning and readiness owned by the students is already good, but the students should be more independent and be more ready by always learning the materials before being taught by the teachers and be independent in writing down the materials considered necessary without being instructed by the teachers; 2) The fact that the effective Student Worksheets learning media have an effect on the student's achievements should urge the teacher to always try to make the students more active in the learning process by utilizing the available media which is Student Worksheets so the achievements gained will be more optimal. As for the limitations in this research are as follows : 1) The distribution of questionnaire in an online setting is a concern because it might be filled with answers that are not consistent with the real condition by the respondents; 2) Communication between researcher and the respondents could not be performed directly because of the social distancing caused by Covid-19 pandemic.

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