

Influence Online Learning During a Pandemic at the Understanding Level of Mathematics Lessons Elementary Students

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ABSTRACT

Covid-19 pandemic that happened at the start 2019 gives outside impact common to all sector . it impact on activities learn finally done online (online). Mathematics is long lessons This feared by students , though so online learning has effect positive and negative . In implementation this online learning there is Lots problems encountered in the field . Study This use method study qualitative with study history and studies case . Studies case conducted on students of SDN Selorejo 1 District Kawedanan Regency Magetan . In the 1st semester of the year teaching 2022/2023. Objective study This is For know influence online learning against level understanding lesson mathematics in students school basic . Many problems encountered in online learning mainly in lessons math , fine from student internal factors nor factor external student . Basically what the teacher conveys in online learning , no Can accepted completely by students .

Keywords: *online learning , pandemic period , level understanding lesson mathematics*

INTRODUCTION

Covid-19 pandemic that happened at the start 2019 gives outside impact common to all sector. Attack Pandemic require all activity held from house . Including learning is also a must done from house. because That learning online be choice main For maintain sustainability of the learning process in students . “ Online learning is a learning process teaching done with method distance Far use internet network ” (Putria et al., 2020) . With presence of the Covid-19 virus for implementation education still in accordance with instruction father president so lasting learning This done with stare advance direct must replaced and modified become learning online . Indonesia applies learning online since beginning month march 2020 where “ all participant educate will Study from House without go to school ” (Yunitasari & Hanifah, 2020) . Government appealed to the public For do all activity from house . this done For reduce rate transmission of covid-19 so as not to the more bad . Minister of Education and Culture stipulate Circular Letter Number 3 and Number 36962/MPK.A/HK/2020 concerning Unit of Education and Implementation of

Education in the Emergency Period of Coronavirus Disease (COVID-19) where learning replaced learning online for reduce risk transmission of covid-19 (Kemendikbud Web Manager, 2020) .

Online learning is learning use Internet network as a connecting medium . Online learning makes it possible breadth in Study from anywhere and at any time Can When just . In interaction between students and teachers or student with student can use application such as classroom, video conferencing , telephone or live chat, zoom or through whatsapp groups. Online learning delivered with electronic media and done in A mutual network connected . Learning and materials found on the internet are used source very useful information in the learning process , “e-learning does not must do stare face ” (Solehah et al., 2020) .

In implementation this online learning there is Lots problems encountered in the field or in practice . Learning Online is heavily influenced by two factors main that is internal factors as well as factors external . Factor external is originating factors from outside participant learn , start from means supporters online learning to method delivery material learning from the teacher. Internal factor is something popped up or originate from in participant educate . Derived internal factors from participant educate will influence success learning among them is interest Study student (Rahmawati, 2022) .

Implementation online learning provides positive as well as negative effects . Influence the positive is learning Can walk without exists contact direct between educators and students , participants educate Can connected in a manner direct wherever and whenever Because using internet media, no need a lot of time and effort Because We No need meet direct and can done from house . According to (Hartanto, 2016) stated " benefit from e-learning including (1) shortening time learning and saving cost study (2) makes it easy interaction student with material learning , (3) participants educate can share about material and also can done repetition Because convenience in access material learning (4) By e-learning development knowledge No only fixated on space class will but with existing network knowledge Can growing and inviting participant educate follow active in development knowledge . Influence the negative is need cost addition Because For learning online requires necessary facilities and infrastructure fulfilled by the teacher, party school and also from parties student . Beside That availability internet network and facilities other main supporters from party student really important . No all area affordable internet network , no all student have gadgets for learning online .

Learning mathematics is the process of giving experience Study to participant educate through series planned activities so that participant educate obtain knowledge about learned mathematics , smart , skilled , capable understand with Good taught material (Amir & Si, 2014) .

(Siswono, 2012) conclude understanding mathematics from a number of expert math . Where is understanding learning mathematics grouped : 1) about number and space , (2) about size magnitude , (3) about quantity , space , number and area , (4) about relationship , (5) studying abstract form , and (6) mathematics characteristic deductive . Mathematics is also knowledge acquired knowledge with reason with use term about the

meaning of something with careful and accurate . as one knowledge knowledge , characteristics special mathematics that is abstract , deductive , consistent , hierarchical , and logical . Soedjadi in Siagian (2016), states " that mathematics have characteristic features special namely : (1) objects that are abstract , (2) is expert agreement , (3) have symbols , (4) are deductive , (5) paying attention circumstances talk , (6) the system characteristic consistent ". object observation mathematics is object that is not can sensed, no Can seen and felt .

In study this , researcher want to know influence learning online during the pandemic to understanding lesson mathematics primary school students at SDN Selorejo 1 District Kawedanan Magetan . (Aqlima, 2020) , stated that " of study about e learning states No all student will obtain success in learning done online ". This due to circumstances environment existing learning around participant learn and also from in self participant educate . Researcher want to know influence online learning during the covid-19 pandemic for elementary students , especially in understanding lesson math , then we take title " Influence Online Learning During a Pandemic at the Understanding Level of Mathematics Lessons Elementary students " .

METHOD

Method study This use method qualitative with study history and studies case . Studies case conducted on students of SDN Selorejo 1 District Kawedanan Regency Magetan . In the 1st semester of the year teaching 2022/2023 and conducted on the Moon October until November 2022. Data obtained with notice study previously obtained from internet sources and also interviews conducted on respondents from several teachers and also students at SDN Selorejo 1 District Kawedanan Regency Magetan . Data collection with use method observation directly as well as interviews with respondents who have determined

Focus study based on influence online learning during a pandemic to understanding lesson mathematics in students school base where in research This focused on students of SDN Selorejo 1 District Kawedanan Regency Magetan . Factors studied is level understanding student to lesson seen math from results Study student during the online learning period , results teacher's observation of activity student during online learning , results data collection in the form of results interview from a number of teacher respondents at SDN Selorejo 1 District Kawedanan Regency Magetan .

Instrument study form results evaluation tests and assignments student , rubric evaluation activity students , guide interviews and observations on students . Study This use method qualitative Where researcher observe direct and do interviews on respondents and this made as reference For know results research .

Data collection with do interview on several respondents who are in research This is all class teachers at SDN Selorejo 1 District Kawedanan Regency Magetan . After obtained results interview Then concluded with see other evidence as well results mark mathematics student during the pandemic and also the results teacher's observation on learning mathematics after learning in a manner stare face .

Data analysis is based on level completeness achieved classics during the learning process lesson mathematics online . Obtained data will observed and concluded . Data is also obtained from teacher observation during obtained online learning with method do interviews with respondents namely class teachers and also students at SDN Selorejo 1 District Kawedanan Regency Magetan .

FINDING AND DISCUSSION

At first the covid-19 pandemic only influence field health and economy , will but over time it also has an impact on the field education . our country is one of the countries affected by the spread of co-19 which requires all its citizens for limit activity outside room and interact with many people. All potential activity involve many insiders implementation start from work , study , and worship everything discontinued Because risky add transmission of covid 19. Government take policy with method appeal to citizens to stop all involving activities many insiders One possible place add level transmission and spread of covid 19. Government through ministry education emit policy For carry out learning distance far and forbid students and teachers interact in a manner direct . circumstances the covid-19 pandemic caused activity Study taught before done in a manner stare advance at school replaced with learning in a manner distance Far with online method from house . Online learning is carried out with adapt with source the power you have each school and pay attention teacher and student abilities .

Use technology information becomes very important , para and school use existing application on the internet that can used as liaison between teachers and students in convey learning application the like google classroom, home study , zoom, teleconference application , telephone or live chat and others . But in practice the teacher's application is the most frequent is use whatsapp group For monitor the child studying at house .

Furthermore, the teacher monitors implementation learning with make submitted assignments in a manner periodic and also intertwined communication with parents For ensure implementation learning students at home . On execution learning online done on the eye lesson mathematics during the Covid-19 pandemic which is the most common and common applied held with using the learning videos sent through application whatsapp groups. All explanation and assignment given past whatsapp group class . Some teachers create a youtube channel For convey material mathematics Then the link given via the WA group. However matter this too less effective Because moment open students ' youtube more choose see other videos instead of the learning videos given by the teacher. this seen from Lots students who haven't see the video that the teacher gave when asked by the passing teacher whatsapp groups. For assignment some teachers use it google form facility , but Lots struggling students moment Open the link provided by the teacher.

Heru Purnomo in the minds of the people, the media network states “ learning distance Far with application method gift task online through whatsapps group media is considered the most effective and possible ” . Many teachers implement with ways diverse in apply learning online . Some teachers have made learning with video explanation

material Then sent whatsapp students , there are also those who take advantage free content from various source . According to Putra Wijaya in (Suryawan & Permana, 2020) state that “ learn At home No become problem Because learning Can done when and where only ”. With notes all means supporters can fulfilled , power support public be very important in implementation learning online .

Inside his book “The One World Schoolhouse”, Salman Khan says : “Education is not going on inside room between teacher's mouth and student's ear . See circumstances that occur and also consider continuity a must education Keep going walk , reason he needed Online Learning in our country during a pandemic is as following :

- a. Capacity education in Indonesia is very limited
- b. Spread less facilities equally
- c. Most institution education Not yet own source sufficient power
- d. Can't yet service equal and quality education
- e. Fulfillment need education Not yet fulfilled . As for example Still Lots inhabitant age school that gets right For get education .

From excess learning already online We also know there is a number of lack in online learning . Lack frequent online learning We Look among them are :

1. Time Rewind

In do learning online frequently happen resignation the time it happened Because Lots p . Sometimes the preparations already ripe Can constrained by our devices use , internet network and also readiness student so that often happen resignation time .

2. Require Big quota

A number of application used For online learning requires a lot of quota , especially For videos download . Besides That video conferencing application used by teachers for interact with student online also requires large internet quota and stable network .

3. Internet network

In regional online learning urban Possible matter This No So problem , will but in regions villages and mountains problem network This become big problem . Because no all area place stay student affordable internet network .

4. Gadget Ownership

In online learning , gadgets or device is need main . On a lot case child No have device For online learning , besides it 's parents trouble too For provide facility For online learning because limitations economy

5. Economic Level

Online learning requires device supporters and also internet quota . kindly automatic need cost addition For fulfil matter This become problem heavy for parents who economy less and also added how difficult economy in Century pandemic .

A number of matter on is problem in a manner encountered external in online learning . Mrs. Ani is a class teacher at SDN Selorejo 1 District Kawedanan Regency Magetan states , " students are lacking participate in organized online learning , p This seen from at least participation student in processing and collection question ." Mrs. Anis teaches class

V at SDN Selorejo 1 District Kawedanan Regency Magetan also said " When do learning use cloud meeting zoom app amount incoming students in the room is very minimal, no until half from amount whole students ". Beside a number of thing already mentioned influencing factors Again is parent factor . Factor family and parents too hold role important . Support from parents is needed in framework education especially during online learning .

parents have important role in education . parents is ornament important in system education child and the most responsible answer to education child . Need exists understanding to parents that role as well as parents in learning the mother learning online really important and basic . " Parent involvement in activity Study child is one very important thing in increase quality education " (Pratiwi , 2015). Less parents notice education child Still Lots around us because busy , because lack of economic necessity they looking for money and set aside education son , and still is Lots again . understanding most parents that education is not quite enough answer teachers and parents only responsible respond to needs material child is wrong assumption . In system education parental role really important . Especially at the moment learning distance Far during the covid-19 pandemic . parents in a manner direct will become companion children Study at home , as well as a mentor, as well as a tutor if face related problems with material lesson .

Mr. Amir is a class VI teacher at SDN Selorejo 1 District Kawedanan Regency Magetan also conveyed "The average parent students at SDN Selorejo 1 District Kawedanan Regency Magetan is workers and levels the economy medium down ". this that's what caused it student not enough facilitated in online learning . Because of the rate low economy cause parents difficult For provide gadgets for learning . Owned smartphones usually only 1 and that too parents use For work and communicate .

Besides exists factor from outside there are also factors from in students (internal) that influence learning online . Internal factor is coming factor from self students , who are influential to interest Study student , desire student follow lessons , feelings like moment follow learning provided by the teacher, and also motivation For following the learning process . Internal factors are very influential to interest student to learning . Interest study is very influential to level the success of the learning process carried out . " Interest is steady trend For notice and remember something activity . (Ro et al., 2021) stated that " Activities carried out a person is greatly influenced by the interests of the person ", because it's the one who has high interest will do something with happy and excited so that No feel burdened on the contrary someone No will Want to do A activities that are not he interest . According to (Ricardo & Meilani , 2017) there is a number of standard For know interest learn on yourself students , that is attention , interest , pleasure , and involvement . Beside it also exists factor influencing discipline from self students , p This seen from method student prepare self in preparation accept lesson . Based on interview from a number of students at SDN Selorejo 1 District Kawedanan Regency Magetan , shows that student not enough interested and inclined not enough discipline in preparation learning . Like said Ilham students class V, "if not There is the teacher not need prepare lesson , right? the person not know if I not prepare lesson ".

Factor from in self influential students to interest Study in learning online during a pandemic including interest student For follow the way learning . this same match with what was conveyed by the student's daughter class IV. It was said by Princess that he more Like Study with stare advance compared to online , because Can Study together with other friends and also met with teacher. In follow the learning process , a lot student experience difficulty Because student not enough understand to material provided by the teacher.

Mathematics considered something tough lesson For understood by students , because mathematics No Can We see and be abstract will but mathematics That clear and always relate with life human . Man will always do calculations - calculations in all thing , and this need mathematics For solve problems encountered . Difficulties encountered in the lesson mathematics demand a teacher for creative as well as innovative in do learning , fine in matter method or other learning media used . because That moment learning student must notice what the teacher delivered with well , because If No so student will experience difficulty For understand . Some teachers still are convey meter learning with monotonous and boring so that student become No interested and finally not enough understand to submitted material . Material that is not complete so will influence mastery student to lessons received (Ramanta & Widayanti, 2020) . In learning use online way of using and packaging learning media really important . Frequent media used is video media, video should be packaged interesting Possible with enter animation in order for this video interesting for students , because If No interesting so interest Study student down , and this cause student become not enough enthusiastic For follow learning . Student tend more choose play or see another interesting video for they compared to notice material lesson . More social media on the internet interesting for students . Development of social media capable take attention and concentration children in education .

From the results interview with student show that , they difficulty in understand material only math explained with using learning videos . understanding student This because ability they swallow explanation from different teachers different , finally cause they have different understandings too One with other . If compared with learning stare advance student more easy understand material compared to with view videos. Like be delivered Reyhan student class III SDN Selorejo 1 that , " if only watch hard videos For understand although be repeated repeat , if stare advance so No understand Can direct ask the teacher." this in line with conveyed by Mrs. Indri, a grade 1 teacher at SDN Selorejo 1, who stated " students class 1 a must led in learning is not very effective If they must Study online , they Still Not yet know letter nor numbers ". Most assigned task online will done by parents or family student so that Can made benchmark in evaluation achievements student . For classes on student difficulty For understand draft formulas and equations in math . Neither do they Can ask directly to the teacher if they No understand . The only explanation done verbally without the media and also interaction really hard right away For accepted student .

Other problems are present is No all parents capable For provide gadgets and internet quota . With so online learning for real No Can done . this same match with what was conveyed by Mrs. Ani, a class IV teacher at SDN Selorejo 1 District Kawedanan Magetan

, " children many do n't gather answer , no follow learning in long time . After done search it turns out Because No know if There is task Because internet quota is up and not yet Can buy , besides That there are also those whose parents ' smartphones broken and yet Can repair ”. this become problems experienced almost in all class . This is what requires the teacher not follow recommendation government and do visiting students and gathering in groups small .

Many problems encountered in online learning mainly in lessons math . Start from internal factor of student nor factor external from outside student Lots become problem . Basically what the teacher said was not Can accepted completely by students . message you want conveyed by the teacher is not Can delivered with perfect for students so that information cut off and made understanding student about material become less . For regions rural people heterogeneous experience online learning Lots problem . Economic level society also influences the way learning online .

CONCLUSION

Based on findings and discussion show that learning online have effect positive as well as negative . From opinion a number of correspondent state that online learning indeed Want to not Want to must be done Because of course circumstances that compel education still walk . A number of problems that occur in the field make online learning becomes not enough effective .

Many problems encountered in the implementation online learning . Among them is availability facilities and infrastructure from teachers as well as students . Many students do n't have gadgets and also not affordable internet network . Also a lot constrained students economy so that difficulty have internet quota .

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