MATHEMATICS IN THE EMERGENCY PUBLIC ACTIVITY RESTRICTIONS (PPKM): HOW ABOUT SELF-CONFIDENCY OF THE STUDENTS?

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Abstract
This study aims to analyze student’s self-confidence in learning mathematics during PPKM. This is descriptive qualitative research, where there are three students of PCGP organized by Universitas Muhammadiyah Surakarta. The auxiliary instruments consist of self-confidence questionnaires, interview guidelines, and field notes. Data collected by distribute questionnaires to research subjects, interviews with parents and teachers, and direct observations. Triangulation of sources and methods used to validate the obtained data. It showed that learning during PPKM did not have a significant effect on student’s self-confidence. The percentage of student's self-confidence in learning mathematics during PPKM was 85%, which was quite good in accordance with the field conditions. Environment become vital role which was very necessary during online learning to assist students in learning.

Keywords: Mathematics; online learning; PPKM; self-confident.

INTRODUCTION
Apart from conspiracy theories, no one in this world expects a plague to cause a global pandemic. A virus that has the characteristics of being easy to spread, contagious, and quite deadly. All countries in the world have try to reduce the rate of the spread (Carbone et al., 2021). Some countries implement quarantine program, where people are restricted in their movements, strictly both their activities and mobility (Borkowski et al., 2021). While Indonesia, does not do a lockdown with...
various considerations (Azhari & Fajri, 2021). Indonesia implements various policies that continue to change along with the number of confirmed patients. Each region has a different policy.

The current policy implemented by the regions in Indonesia is Pemberlakuan Pembatasan Kegiatan Masyarakat (PPKM) or popular called The Emergency Public Activity Restrictions. PPKM start to be use since the second wave of covid-19, which mentioned as delta variant. (Irawan et al., 2021). This second wave of attacks discouraged the government's intention to conduct limited direct learning that was planned to be carried out in June 2021. Learning carried out by online without any interaction between teachers and students directly as usual.

Online learning implementation during pandemic has been running since early of 2020 (Hendriyanto et al., 2021b). More than three semesters of students absent, they did not went to school. This was reasonable if this causes the changed of current learning paradigm from direct learning (face-to-face) to online learning. (Hendriyanto et al., 2021a). However, the facts show that online learning was not relatively effective. Some obstacles was still encountered in various areas, such as the availability of mobile phones, weak internet network, lack of learning resources, lack of supervision, limitations of teachers in using technology, and others (Fitriana et al., 2021).

Online learning regulation should be implement to all subjects in school, including mathematics. It is one of the compulsory subjects at all levels of formal education in Indonesia. This is because mathematics is a source of other scientific developments (Zakiah & Fajriadi, 2020). However, many people have the assumption that mathematics become a complicated and difficult subject to learn (Verschaffel et al., 2020). This assumption has been passed down from generation to generation, this makes students dislike or allergic to mathematics.

In other side, Indonesian infrastructure is not same every district and city. There are many different perception occurred through their familiarity level of mathmatic development. This condition make self-confidence differences. Students with good technology tend to be better on self-confidence. Teachers should consider using various manner in order to measure and to ensure high quality education for everyone.

The current K13 curriculum in Indonesia emphasizes that learning does not only focus on the cognitive domain, but also the affective and psychomotor aspects. (Ariawan et al., 2020). In mathematics, in the affective domain, there are several competencies that should be achieve in learning mathematics, such as having self-confidence in solving mathematical problems. (Kaskens et al., 2020). It is argue that very important for students to have self-confidence in learning mathematic as a basic daily requirement in the real life.

Referring to the competencies that should be achieved it was normal if students need to have self-confidence in the learning process. In fact, there are still many students who feel afraid and not confident enough to learn mathematics (Szczygieł & Pieronkiewicz, 2021). Weak self-confidence will make students inactive in learning. Moreover, when students are required to learn independently. Today, online learning requires students to be more confident.
Lack of self-confidence will hinder the student’s learning development, because this kind of attitude causes students to be pessimistic and always feel doubtful when they want to express their opinions (Mumford & Dikilitaş, 2020). Some students who are able to understand mathematics well are those who have high self-confidence. (Yaniawati et al., 2020).

Self-confidence competency must be embedded in every student, because self-confidence has an important role in student learning achievement. Student’s self-confidence needs to be continuously trained, in order to useful both in learning and in life. The environment becomes a major factor in building student self-confidence (Kaur & Prendergast, 2021), both the family, community, and school environment.

The limited interaction between people during PPKM certainly affects student’s self-confidence. Students cannot meet directly with friends and teachers at school, even with their neighbors which nearer. This research would be important as a means to see student’s self-confidence in learning during PPKM. As long, self-confidence become one of the competencies, which students in learning mathematics should need it. This initial research could be use as the basis data for determining appropriate actions to increase student’s self-confidence.

Based on the important of self-confidence for student, and the coming of online learning as pandemic covid-19 effect, everyone need to be fast to adapt. In other side, mathematic always become special major for student. This research try to analyze student’s self-confidence in learning mathematics during PPKM.

METHOD

The research was carried out refer to Program Calon Guru Penggerak (PCGP) or we can say the Activating Teacher Candidate Program, organized by the Muhammadiyah Surakarta University. This program focuses on designing fun learning in accordance with learning key point during pandemic by Kemendikbudristek (the ministry of education, research and technology Indonesia).

The research uses a qualitative descriptive approach, where the researcher as the main instrument. There are three students as research subjects. The students are teachers who participate PCGP. This amount of subject taken as there is only three teacher on mathematic education who is participating to PCGP. Observations carried out for four weeks, as well as interviews with teachers and parents. At the end of the study, the three subjects given a self-confidence questionnaire, which consist of 45 questions. Confidence questionnaires distributed at the end of the study. Consists of 45 questions covering aspects of 1) self-confidence; 2) optimism; 3) objective; 4) be Responsibility; 5) rational and realistic (Yuli Amalia, M. Duskri, 2019). Every indicator has influence for student’s self-confidence on learning mathematic.

The validity of the data based on the data obtained from each subject. The researcher compared the results of observations with a questionnaire, with the data validity technique used, namely triangulation of methods and sources. Data were analyzed using four stages; there were data collection, data reduction, data categorization, presentation and drawing conclusions.
RESULT AND DISCUSSION

Teacher provided material and practice of mathematics learning through WhatsApp messenger. It need one week to work on them. It’s mention by P1 for parent 1, P2 for parent 2, and P3 for parent 3, T1 for teacher 1. During the four weeks, two subjects found working on math assignments that were not in accordance with their lesson hours, while one subject did assignment when the task given. Feedback or question and answer offer directly through WhatsApp messenger. It known, if the interaction of students and teachers looked inactive in the forum, there was no discussion happens. Students tend to choose to ask their parents or siblings when they did not understand the material or questions. For any reason, it was fact if student have additional tutoring schedules with other outside teacher.

Table 1. Self-confidence percentage

<table>
<thead>
<tr>
<th>No</th>
<th>Item</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Self-confidence</td>
<td>85%</td>
</tr>
<tr>
<td>2</td>
<td>Optimism</td>
<td>83%</td>
</tr>
<tr>
<td>3</td>
<td>Objective</td>
<td>84%</td>
</tr>
<tr>
<td>4</td>
<td>be Responsibility</td>
<td>85%</td>
</tr>
<tr>
<td>5</td>
<td>Rational and Realistic</td>
<td>87%</td>
</tr>
<tr>
<td></td>
<td><strong>Average</strong></td>
<td><strong>85%</strong></td>
</tr>
</tbody>
</table>

Based on questioner data, it could be found that students has various condition. The results of the questionnaire showed 85% of students were included in the high category. This was satisfactory result, because almost all students believe could complete their homework as well as independently. It refer to Vidergor & Ben-Amram (2020) research who said if students are given homework, then do it independently, it was the same as providing student’s opportunity to get more learning experiences in order to help students developing themselves and thinking as well.

Detail data was confirmed by interviewed the respondent. “I can't explain mathematics, my profession as a housewife and cook for sales, can’t help. So I prefer to call someone to tutor my child,” said one of the student's parents (P1). It statement shows that, not all parents are able to supervise and to help their children to learn independently. Then, when confirmed about student’s self-confidence, P2 explained, "I think my child is not embarrassed, it doesn't seem like it, but sometime, the questions answered by WhatsApp are unclear, my child feels more comfortable asking directly to the people around him. If he want to ask the teacher directly, he is not allowed to go to school". This explanation shows that students are confident enough to ask materials or teacher’s assignment, which are difficult to others.

“Student scores are good during this pandemic. I do not know how to do it by their self or help by others. Clearly, they are orderly in collecting assignments and the results are quite good”, T1 explain regarding the learning outcomes during the pandemic. Regarding student’s self-confidence, the teacher explained if students often asked about material, they did not understand when they met.

Respondent has confidence enough to ask, also having good response in short talk. Sometimes, giving difficult question, while teachers hard to understand, but they have enough openness. The results of observations and interviews showed that students’ self-confidence in mathematics subjects during PPKM was in the good category. This result was refer to Khair et al. (2021) research, which states that
student’s self-confidence on mathematic by online learning reveal to 86.7% with good level competencies. All the data showed triangulation method which refer to the use of multiple method on qualitative analysis. By this method could be found some phenomena if students has quality self-confidence even the suddenly coming of online era. They could adapt through what should be learn as well.

Ativetin (2021) explains that self-confidence was a positive attitude of an individual that enables him to develop a positive assessment, both from their self and the environment or the several situation came. Lauster (1978) article found the aspects relate to self-confidences followed:

1. The confidences of self-skills become positive attitude for someone, in order to be serious to do something needed.
2. Optimist is positive attitude, which possessed by someone who always has a good insight in dealing with everything about himself and his abilities.
3. Objective is the ability of a person to view the problem in accordance with the proper truth, not according to personal truth.
4. Responsibility is a person's willingness to bear everything that has become the consequence.
5. Rational and realistic is the ability to analyze a problem or something that reasonable could be accept by common sense, according to reality.

Self-confidence refers to a person's perceived ability to cope with something without relying on others and having a positive assessment of himself. The person will see himself as competent, independent, confident, moving forward, quite assertive, and has the qualities of ability.

Self-confidence is an attitude that allows individuals to have a positive but realistic view of themselves in every situation. These people, believing in their own abilities, control their lives, do what they want, plan and expect.

Irhamna et al. (2020) reveals that self-confidence is an attitude or feeling confident about someone's abilities. So that the person concerned is not too anxious in his actions, feels free to do what he likes, responsible for his actions, warm and polite enough in interacting with others, accepts and respects to others, and knows his own strengths and weaknesses to gain high achievement.

CONCLUSIONS

Based on the research findings and discussion above, it could be concluded, that learning during PPKM did not have a significant influence on student’s confidence. Student’s confidence in mathematics learning during PPKM amounted to 85%, which are quite good in accordance with field conditions. Need of environment role to accompany learners during their study. Parent’s inability to answer student’s questions about material problems is not an obstacle in online learning. They could ask others to solve the problem. This shows that in online learning has a positive side that is increasing the independence and student’s confidence.

This primary research only take on self-confidence student on learning mathematic, even though students got any problem in other subject. This research environment could be one example to use in other treatment. Which mean, everyone able to use difference variable for difference term and condition. There will be more self-confidence analysis through difference area.
DAFTAR PUSTAKA


