

Development of Instrument Assessment of Pancasila Student Profile Assisted by Google Form on Material Quadrangle in Grade IV SD Negeri 104607 Sei Rotan

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ABSTRACT

Instruments in learning have an important role in obtaining information about achieving student competencies objectively. This study aims to describe the validity of the Pancasila student profile instrument developed. This research is development research conducted using the preparation of test and non-test instruments by Mardapi. The subjects in this study were grade IV students of SD Negeri 104607 Sei Rattan totaling 44 students. From the results of the trial obtained: 1) the validity of the developed instrument is valid in terms of the results of advance validation and content validation. As well as the results of trials with students are declared valid and have high reliability.

KEYWORDS

Instrument Development; Pancasila Student Profile, validation

INTRODUCTION

The success of education with the main goal of improving human resources, is influenced by various factors (Sudjana, Nana, 2016). One of the influencing factors is the teacher's ability to conduct and utilize assessments (Umar & Sulo, 2017 & Arikunto et al, 2003). According to Hariono et al, (2021) stated that in the process of learning assessment is very important from the learning process, because an assessment can be used in making decisions based on measurement. Learning forms the basis of people's behaviours and they become familiar with the environment through learning, learn how to emit emotions and develop their rationality (Bakhtiarvand, M, 2020).

The quality of assessment of a learning instrument is needed, if the instrument used has good quality, in the sense that the instrument should meet several requirements, including valid, reliable, objective, practical and easy to use and norms (Rosidin, 2017; Dimyati & Mudjiono, 2015; and Kompri, 2017). So, if you meet these requirements, the data obtained will be in accordance with the actual situation in the field, because the instrument that will be used to reveal the information that becomes data. If an instrument has low validity, it will produce irrelevant data (Zaenal &; Heri, 2017).

The profile of Pancasila students is in accordance with the vision and mission of the Ministry of Education and Culture (Kemendikbud, Culture, Research, and Technology) as stated in the Regulation of the Minister of Education and Culture Number 22 of 2020 concerning the Strategic Plan of the Ministry of Education and Culture for 2020-2024, that "Pancasila students are the embodiment of Indonesian students as lifelong learners who have global competence and behavior in accordance with the values of Pancasila, with six main characteristics: faith, piety, fear of True Source, and noble character, global diversity, mutual assistance, independence, critical reasoning, and creativity.

According to Kementerian Pendidikan dan Kebudyaan (2020) or the Ministry of Education and Culture, immoral student profiles are classified by phase, where in that phase is determined by the age of the student. This research is in class IV, then in grade IV students enter phase B. The following dimensions and elements of the Pancasila student profile in phase B can be seen in table.1 as follows:

Dimension	Element	Details
Self-sufficient	Self-understanding and the	Recognize the qualities and
	situation at hand	interests of yourself and the
		situation at hand.
		Recognize his abilities,
		achievements, and interests as well
		as the challenges he faces based on
		the events he experiences in
		everyday life.
		Develop self-reflection
		Reflect to identify his strengths
		weaknesses and achievements as
		well as situations that can support
		and hinder his learning and
		development
	Self-regulation	Emotion regulation
	Sen regulation	Know the influence of other people
		situations and events that occur on
		the emotions they feel and try to
		express emotions appropriately
		taking into account the feelings and
		needs of others around them
		Satting learning, achievement and
		solf development goals as well as
		strategic plans to achieve them
		Evaluate the importance of having
		Explain the importance of having
		goals and committing to achieving
		them and explore the appropriate
		steps to achieve them.
		Show initiative and work
		independently
		Develop self-control and discipline
~		Confident, resilient, and adaptive.
Critical reasoning	Acquire and process	Ask a question
	information and ideas	Identify, clarify, and manage
		information and ideas
	Analyze and evaluate reasoning	Analyze and evaluate reasoning and
	and its procedures	its procedures
	Reflection of thoughts and	Reflect and evaluate his own
	thought processes	thoughts
Creative	Generate original ideas	Come up with new, meaningful
		imaginative ideas from various
		ideas as an expression of his
		thoughts and/or feelings.
	Produce original works and	Explore and express their thoughts
	actions	and/or feelings in accordance with
		their interests and preferences in the
		form of works and/or actions by
		appreciating the works and actions
		produced

Table 1. Dimensional with Elements of Pancasila Student Profile no Phase B

Have flexibility of thinking in	Compare creative ideas to deal with
finding alternative solutions to	situations and problems
problems	

Mathematics as a conceptual tool for constructing and reconstructing matter, honing, and practicing the thinking skills needed to solve problems in life. The subject of mathematics equips students on critical thinking, reasoning and logic through certain mental activities that form a continuous stream of thinking and lead to the formation of a stream of understanding. Mathematics subjects have moral values including freedom, skill, interpretation, accuracy, systematism, rationality, patience, independence, discipline, perseverance, toughness, confidence, openness and creativity. Thus, its relevance to the student profile of Pancasila, mathematics subjects are aimed at developing students' independence, critical reasoning skills, and creativity.

Based on the results of observations in the field and information from teachers that have been carried out at SD Negeri 104607 Sei Rotan, it was found that grade IV teachers still have difficulty designing instruments to measure the dimensions of student profiles on quadrilateral material so that teachers with Pancasila education have not developed a Pancasila Student Profile assessment instrument that emphasizes the implementation of the Independent Curriculum. To overcome this, it is necessary to develop a Pancasila student profile assessment instrument, especially in the dimensions of independence, critical reasoning, and creativity in extracurricular activities in quadrilateral mathematics subjects in grade IV.

RESEARCH METHODS

This research uses a research development model or *Research and Development* (R&D) (Husnunidah, Neni., 2017). The development of test and non-test instruments used in this study was proposed by Djemari Mardapi. The development of test instruments has 9 steps, namely (1) compiling test specifications, (2) writing test questions, (3) reviewing test questions, (4) conducting trials, (5) analyzing question items, (6) improving tests, (7) assembling tests, (8) conducting tests, (9) interpreting tests. While non-test development has 10 steps, namely (1) determining instrument specifications, (2) writing instruments, (3) determining instrument scales, (4) determining rating scales, (5) reviewing instruments, (6) conducting trials, (7) analyzing instruments, (8) assembling instruments, (9) taking measurements , (10) interpreting measurement results.

The subjects in this study were grade IV students of SD N 104607 Sei rotan. Male learners are 20 people and female learners are 24 people. The trial consisted of 23 learners. Data collection techniques using questionnaires, content validation questionnaires for tests. Data analysis is carried out using Likert scale, validity test, reliability test, question item analysis. Validity tests are used to determine the validity of questions and questionnaires developed, reliability tests are used to determine the reliability of questions and questionnaires developed.

RESULTS AND DISCUSSION

Drawing Up Test Specifications

The first step in the development of test instruments is to compile test specifications. The preparation of test specifications consists of several activities

Including; (1) determine the purpose of the test, (2) determine the test grid, (3) choose the form of the test, and (4) determine the length of the test.

Determining Test Objectives

The test developed aims to measure the profile of Pancasila students in grade IV on quadrilateral material on the dimensions of critical reasoning and creative thinking. Before the test is used, the test must be valid and reliable to measure critical reasoning and creative thinking in students

Arranging the test grid

After determining the purpose of the test, the next step is to arrange the test grid. In the test grid, there are four steps, namely (1) writing the general purpose of the lesson, (2) making a list of subjects and sub-subjects to be tested. (3) determine indicators, (4) determine the number of questions for each subject and sub-subject. The grid of questions can be seen in the table as follows:

Learning Competencies	Dimensions of Pancasila Student Profile	Element	Subject matter	Question number
1.3 Determine the	Critical reasoning	Analyze	Square	1,7, and 8
circumference		Evaluate	Square	4
and area of a flat				2
build		Conclude	Square	5
	Creative	Thinking orisinal	Square	6
		Flexible thinking	Square	3

Table 2. Question Grid Table

Choosing a Test Form

The question form chosen in the test development is the description form. The description test was chosen because it is suitable for use in subjects such as mathematics, because mathematics has a definite answer and only one correct answer.

Determining Test Length

Determination of test length relates to the length of time given to students to answer questions. The written test takes 90 minutes to 150 minutes. Students are given time to answer questions for 35 minutes.

Writing Test Questions

After compiling the specifics of the test, the next step is to write the test questions. Question writing is describing learning competency indicators on the material taught into questions. So, this study discusses quadrilateral material with learning competencies to determine the circumference and area of flat buildings. The question indicators can be seen in 3 as follows:

Learning Competencies	Question indicators	
Determining the	Comparing 2 square areas.	
a flat build	Given the contextual problem, make a plan to determine the size of the one build you want to create.	
	With contextual problems, evaluate how long the land is, and	
	the money you get after the sale.	
	Given the contextual problem, determine the most important	
	and relevant parts of the quadrilateral.	

 Table 3. Question Indicator Table

Given the contextual problem, determine the length of the			
sides of the quadrilateral.			
Contextual problems are presented, solving quadrilateral area			
problems and change.			
Determining the area of the shaded area			

The acquisition of critical and creative reasoning data is carried out scoring on students' answers to each question item. The criteria for scoring critical and creative reasoning using analytical scoring according to Mardapi (2008). As presented in the following table:

Table 4. Test Question Scoring Table

Student Response to Questions	Shoes
Write formulas correctly	1
Write formulas and enter numbers in	2
formulas correctly	
Writing formulas, entering numbers in	3
formulas and calculating processes are	
wrong so that the results are wrong	
Write down the formula, enter numbers on	4
the formula and process the calculation and	
the result is correct	

Studying Test Questions

After writing the question, the next step is to study the problem. Questions that have been made are first tested for validity. Then a revision is carried out based on input and suggestions from validators, and then the questions are tested to students.

The validation phase includes advance validation and content validation. Content validation was carried out by 5 (five) mathematics education lecturers with S3 backgrounds, including lecturers with the initials of Mr. M, Mr. W, Mr. E, Mr. G, and Mrs. U. The five validators provide several points and input on the developed problems. Then revisions were made in accordance with suggestions from the weigher and consulted with the supervisor. The results of the weighing of the content validity and face validity of several validator experts were analyzed using Q-Cochran statistics.

The purpose of this analysis is to find out whether the weighers consider the test questions uniformly and creatively or not. In the following section, the researcher presents the results of face validity, which is about the clarity of the appearance of the question in terms of language. The results of the weighers as presented in the following table:

Question Number	Validator				
	1	2	3	4	5
1	1	1	1	1	1
2	0	1	1	1	1
3	1	1	1	1	1
4	1	1	1	1	1
5	1	1	1	1	1
6	1	1	1	1	1
7	0	1	1	1	1
8	1	1	0	1	1

Remarks 1: valid and 0: invalid.

The results of the validator experts presented in the table above, are further analyzed with *Q*-*Cochran* statistics. The results of the statistical test are used to find out whether the validators weigh the instrument equally or not. The results of these statistical tests are presented in table 6 below:

Ν	5
Cochran's Q	5,526 ^{<i>a</i>}
Df	7
Asymp.Sig	0,596

Table 6. Q-Cochran Statistical Results

The table above shows that the asymptic significance of 0.597 is greater than the significance level of $\alpha = 0.05$. The calculated statistical price Q is 4.308 and the price χ^2 (0.05; 7) = 14.067. Since the value of Q turns out to be smaller than the χ^2_{tabel} price at the level of significance of 5%, it can be concluded that experts have weighed the face validation of each point of critical reasoning questions and creative equally or uniformly. Furthermore, researchers also validate the contents whose results are contained in the table as follows:

Table 7. Content Validation Results

Question	Validator				
number	1	2	3	4	5
1	1	1	1	1	1
2	0	1	1	0	1
3	1	0	1	1	1
4	1	1	1	1	1
5	1	1	1	1	1
6	1	1	1	1	1
7	0	1	1	1	1
8	1	1	0	1	1

Remarks 1: valid and 0: invalid

The results of the validator experts presented in table 4.6 are further analyzed with Q-*Cochran* statistics. The results of the statistical test are used to find out whether the validators weigh the instrument equally or not. The results of the statistical test are presented in table 8 below:

Ν	5
Cochran's Q	6,576 ^a
Df	7
Asymp.Sig	0,474

Table 8. Q-Cochran Statistical Results Table

The table above shows that the symbiotic significance of 0.474 is greater than the significance level $\alpha = 0.05$. The calculated statistical price Q is 6.576 and the price $\chi^2 (0.05; 7) = 14.067$. Since the value of Q turns out to be less than the price χ^2_{tabel} at the level of significance of 5%, it can be concluded that experts have weighed the validation of the content of each item of critical and creative reasoning questions equally or uniformly.

Trial

The instrument that has been declared to meet the content and validity of the face, then the test was tested on 23 grade IV students at SD Negeri 104607 Sei Rotan. The results of obtaining scores in trials are used to obtain validity and reliability, level of difficulty and differentiating power of questions.

Analyzing Question Points

Question point analysis can be known by the results of obtaining student scores on trials. Question point analysis includes validity and reliability, difficulty and discriminating power.

Test Question Item Validity and Reliability

The data obtained by the test questions and the calculation of the validity and reliability of the test using the help of *Excel* and SPSS-24 *for windows* programs. The validity of the question item is used with the *Product moment* correlation. As for the reliability of the test, *Crocbach Alpha* Analysis is used. The calculation results obtained test validity and test reliability are presented in the following table:

Question	Validity		Relia	bility
Number	r_{xy}	Criterion	r_{11}	Interpretation
1	0,603	Valid		
2	0,761	Valid		
3	0,780	Valid		
4	0,560	Valid	0.852	Tall
5	0,769	Valid	0,855	1 all
6	0,828	Valid		
7	0,767	Valid		
8	0,545	Valid		

Table 9. Question Validity and Reliability Table

Based on the table above 0.3515 was obtained r_{tabel} from the defree of freedom (df) table of 21 out of 8 questions in the trial. From the overall calculation, all questions are declared valid. The question is valid from the value of $r_{hitung} > r_{tabel}$. so that all questions can be used to measure the dimension of critical reasoning and the dimension of creative thinking in the profile of Pancasila students. The reliability of the questions in table 4.8 with an acquisition of 0.853 with a high interpretation according to the classification of reliability degrees.

The difficulty level of the question items

Based on the trial data is then followed by determining the differentiating power of the test. The results of the test instrument trial were obtained by students from 23 respondents to determine the level of difficulty of the question. The difficulty level of the question can be seen as follows in the following table.

Question Number	Difficulty Level	Classification
1	0,63	Keep
2	0,565	Keep
3	0,56	Keep
4	0,27	Difficult

Table 10. Question Difficulty Table

5	0,60	Keep
6	0,62	Keep
7	0,623	Keep
8	0,69	Keep

Based on table 4.10, 7 questions have a medium classification, 1 question has a difficult classification. In the other 7 questions with medium classification.

Differentiating Power

Based on the results of the trial test, the results of 23 respondents were used to determine the distinguishing power of the test. The differentiating power of the test can be seen in the following table:

Table 11. Problem Differentiating Power Table			
Question	Differentiating Power	Classification	
Number			
1	0,439	Good	
2	0,669	Good	
3	0,679	Good	
4	0,454	Good	
5	0,665	Good	
6	0,752	Good	
7	0,684	Good	
8	0,451	Good	

Based on the table above, it can be seen that the discriminating power in all questions in the range of 0.40-0.70 according to the differentiating power guidelines has a good classification. This is based on the classification of differentiating power.

Development of Questionnaire Instruments

Determining the Specifics of the Questionnaire

Specifications on the instrument consists of the purpose and lattice of the instrument. As for this study, the purpose of the instrument is to measure student learning independence. The instrument grille is shown in the table below.

Dimensions of	Element	Statement indicators	
Pancasila Student			
Profile			
	Goal setting,	Prepare all the needs needed	
	achievement, and self-	Learning the material before teaching	
	development as well as	If you don't understand the material, ask the	
Salf sufficient	strategy plans	teacher	
		Always get up early to attend school lessons	
		Make a list of lessons to study at home	
Sen-sumcient	Initiative	Looking for literature sources about	
		material that is poorly understood	
		Repeat lessons at home	
		Record important things in the book to	
		make it easier to remember lessons	
		Learn without parents telling you to	

 Table 12. Instrument content k-grid

	Always thought you'd get good grades
When having difficulty understanding	
material, ask others	
Work independently	Work on individual tasks
Discipline	Study regularly
	Collect tasks on time
	Listen well to the teacher when explaining
	the material
Serious in solving problems	
Self-confidence	believe in one's abilities
	Dare to give opinions during group
	discussions
	Able to complete tasks on their own
	Not sure you can do the exercises given by
	the teacher yourself

Writing a Questionnaire

The next step is the writing of the instrument, in this step the indicator is translated into statements. The description of indicators into statements can be seen in the table as follows:

Dimensions of	Element Statement indicators		Statement number	
Pancasila Student Profile				
	Goal setting, achievement, and self-	Prepare all the needs needed	1	
	development as well as strategy plans	Learning the material before teaching	2	
		If you don't understand the material, ask the	3	
		teacher		
		Always get up early to attend school lessons	15	
		Make a list of lessons to study at home	16	
	Initiative	Looking for literature sources about material that is poorly understood	4	
Self-sufficient		Repeat lessons at home	5	
		Record important things in the book to make it easier to remember lessons	17	
		Learn without parents telling you to	11	
		Always thought you'd get good grades	18	
		When having difficulty understanding the	14	
	Workindenenderti	material, ask others	6	
	work independently	tasks	0	
	Discipline	Study regularly	7	

 Table 13. Instrument Grid Table

	Collect tasks on time	8
	Listen well to the	12
	teacher when	
	explaining the	
	material	
	Serious in solving	13
	problems	
Self-confidence	believe in one's	9
	abilities	
	Dare to give opinions	10
	during group	
	discussions	
	Able to complete tasks	19
	on their own	
	Not sure you can do	20
	the exercises given by	
	the teacher yourself	

Determining Scale

The next step is to determine the scale. The scale used is the Likert scale. On the Liken scale there are strongly agree (SS), agree (S), disagree (TS), and strongly disagree (STS) categories.

Determining the Questionnaire Scoring System

The next step is to determine the scoring system. The scoring system used is Likert scale. On the Likert scale the highest score is 4 and the lowest is 1. The scoring on the likert Scala can be seen in the table below:

Tuble I in Elikert Seale Seoring Tuble			
Category	Shoes		
Strongly Agree (SS)	4		
Agree (S)	3		
Disagree (TS)	2		
Highly Disagree (STS)	1		

Table 14. Likert Scale Scoring Table

The next step after writing the instrument, the next step is to study the instrument. The instruments that have been made are first tested for validity by validators as many as 2 lecturers. Then revisions are made based on input and suggestions from validators, and then the questions are tested to students.

The validation phase includes content validation. Content validation is carried out by mathematics education experts with S3 backgrounds. Then revisions were made in accordance with suggestions from the weigher and consulted with the supervisor. The results of validation by validators can be seen in the following table:

Assessed aspects	Indicator Validator Score		
		1	2
Content Aspect	Conformity of statements	3	4
	to the purpose to be		
	measured		

 Table 15. Validation Results

Percentage		84%	92%
T	10	11	
	and correct		
Language Aspect	4	4	
	to measured indicators		
	Conformity of statements	3	3

Based on the average percentage on the tabe l above, 88% was obtained, which means that the questionnaire was declared valid. Indicates that the developed questionnaire can be used at the trial stage.Based on validation by validators, it can be concluded that the percentage obtained is 88% which means that the questionnaire is declared valid. And it is concluded that the statement is categorized as good and does not need to be revised. This shows that the statements of the independence questionnaire can be tested on students.

The next step after validation by validators is to conduct a trial. The trial was conducted on grade IV students of SD Negeri 104607 Sei Rotan. A total of 23 learners. In trials using students outside the research subjects. Trials were conducted to analyze questionnaire instruments and analyze instrument reliability. Based on the results of obtaining student scores in trials, the instrument analysis includes validity and reliability, the validity of the instrument can be seen in the table as follows:

Element	Statement	Validity r_{xy} r_{tabel}		Category
	Number			
goal setting,	1	0,783	0,3515	Valid
achievement, and	2	0,533	0,3515	Valid
self-development as	3	0,734	0,3515	Valid
well as a strategy plan	15	0,766	0,3515	Valid
	16	0,770	0,3515	Valid
Initiative	4	0,785	0,3515	Valid
	5	0,813	0,3515	Valid
	11	0,636	0,3515	Valid
	14	0,779	0,3515	Valid
	17	0,810	0,3515	Valid
	18	0,651	0,3515	Valid
Work independently	6	0,877	0,3515	Valid
	7	0,836	0,3515	Valid
Discipline	8	0,908	0,3515	Valid
	12	0,801	0,3515	Valid
	13	0,842	0,3515	Valid
Confidence	9	0,687	0,3515	Valid
	10	0,565	0,3515	Valid
	19	0,707	0,3515	Valid
	20	0,662	0,3515	Valid

Table 16. Instrumer	nt Validity
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Based on, the table above, 0.3515 was obtained from the defree of freedom (df) table of 21 out of 20 r_{tabel} statements in the trial. From the calculation as a whole, all statements

are declared valid. The question is valid from the value of $r_{count} > r_{table}$. so that all statements can be used to measure the independent dimensions of the Pancasila student profile.

The reliability of the instrument was analyzed using the *Cronbach Alpha* coefficient for the independence instrument questionnaire. The reliability value is calculated based on valid statements, on the elements of goal setting, achievement and self-development and the strategy plan consists of 5 valid statements, the element of initiative consists of 6 valid statements, the element of working independently consists of 2 valid statements, the discipline element consists of 3 valid statements, and the element of confidence consists of 4 valid statements. The reliability of each element of independence can be seen in the following table:

No	Element	Coefficient Cronbach Alpha
1	goal setting, achievement, and self-	0,679
	development as well as a strategy plan	
2	Initiative	0,788
3	Work Independently	0,869
4	Discipline	0,846
5	Self-confidence	0,751

 Table 17. Questionnaire Reliability

Based on table it can be seen that each element has a *Cronbach Alpha* value ranging from 0.60-0.803. In the element of goal setting, achievement, and self-development and strategy plan the coefficient is 0.679, the initiative element the coefficient is 0.803, the element works independently the coefficient is 0.706, the element the discipline coefficient is 0.696, and the confident element coefficient is 0.682. So based on the classification of the degree of reliability of each element is declared reliable. This means that the instruments developed can measure what should be measured and can be used to measure the independence of learners.

CONCLUSION

The validity of the developed Pancasila student profile instrument is categorized on valid criteria. The test instrument is declared valid which is reviewed from the results of advance validation and content validation. As well as the results of trials with students are declared valid and have high reliability. The questionnaire instrument was declared valid in review of the validation results by experts with a percentage of 89.5%. And at the trial stage with students declared valid and have moderate reliability.

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