

LAMPIRAN



Lampiran 1. Analisis Kebutuhan Sel-assessment di SD Montessori Bali School.

a. LEMBAR OBSERVASI UNTUK ANALISIS KEBUTUHAN *SELF-ASSESSMENT* DI SEKOLAH MONTESSORI BALI

No	Indikator	Komponen dan aspek yang diamati	Hasil
1	Perencanaan pembelajaran	<ul style="list-style-type: none"> a. Silabus b. RPP c. Program tahunan d. Program triwulan e. Program mingguan f. Program harian 	
	Pelaksanaan proses pembelajaran	<ul style="list-style-type: none"> a. Penilaian harian b. Penilaian mingguan c. Penilaian triwulan d. Penilaian tahunan 	
3	Hasil belajar	<ul style="list-style-type: none"> a. Bentuk dan jenis penilaian b. Bentuk dan jenis pelaporan penilaian 	

B. KISI-KISI KUISISONER ANALISIS KEBUTUHAN *SELF-ASSESSMENT* DI SEKOLAH MONTESORI

No	Indicator	Komponen	Pernyataan	Positive	Negative
1	Perencanaan pembelajaran	Syllabus	a. <i>Self-assessment</i> merupakan bagian dari syllabus		
		RPP	a. Menyertakan <i>self-assessment</i> dalam setiap pembuatan perencanaan pembelajaran b. Penilaian lain selain <i>self-assessment</i> disertakan disertakan dalam pembuatan perencanaan pembelajaran c. menyertakan suatu jenis bentuk penilaian proses pembuatan rancangan pembelajaran		
2	Proses pembelajaran	Penilaian harian	a. Penilaian <i>self-assessment</i> dilakukan tiap hari		
		Penilaian mingguan	a. Penilaian- <i>self assessment</i> dilakukan mingguan		
		Penilaian triwulan	a. Penilaian <i>self-assessment</i> dilakukan setiap akhir triwulan		
		Penilaian semester	a. <i>Self-assessment</i> dlakukan setipa akhir semester		
	Hasil belajar	Bentuk dan jenis penilaian	a. Siswa diberikan tes pada setiap akhir triwulan atau semester b. <i>Self-assessment</i> dijadikan sebagai alternative penilaian		
		Bentuk dan jenis	a. <i>Self-assessment</i> dijadikan acuan dalam pelaporan penilaian		

		pelaporan penilaian	b. Pelaporan penilaian berupa skor hasil tes c. Menyertakan komentar terhadap penilaian diri siswa pada laporan penilaian		

C. KISI-KISI WAWANCARA UNTUK ANALISIS KEBUTHAN SELF ASSESSMENT DI SEKOLAH MONTESSORI BALI

No	Indikator	Komponen	Perntanyaan	Hasil
1	Perencanaan pembelajaran	Syllabus	a. Apakah <i>self-assessment</i> tercantum dalam silabus b. Apakah anda mengetahui tentang <i>self-assessment</i> c. Apakah anda mengetahui arti penting dari self assessment	
		RPP	d. Apakah anda menyertakan self-assessment pada pembuatan perencanaan pembelajaran e. Apakah anda mencantumkan penilaian Penilaian lain selain self-	

			assessment dalam pembuatan perencanaan pembelajaran f. Penilaian apa saja yang anda cantumkan pada perencanaan pembelajaran	
2	Proses pembelajaran	Penilaian selama proses pembelajaran	a. Apakah <i>self-assessment</i> dilakukan tiap hari b. Apakah <i>self-assessment</i> dilakukan mingguan c. Apakah <i>self-assessment</i> dilakukan setiap akhir triwulan d. Apakah <i>self-assessment</i> dilakukan setiap akhir semester e. Apakah menurut anda <i>self-assessment</i> itu penting f. Apakah menurut anda <i>self-assessment</i> berguna buat siswa, orang tua dan guru	
	Hasil belajar	Bentuk dan jenis penilaian	a. Apakah Siswa diberikan tes pada setiap akhir triwulan atau semester b. Apakah Penilaian harus berupa tes	

			c. Apakah <i>self-assessment</i> dijadikan sebagai alternatif penilaian	
		Bentuk dan jenis pelaporan penilaian	<ul style="list-style-type: none"> a. Apakah <i>self-assessment</i> dijadikan acuan dalam pelaporan penilaian b. Apakah Pelaporan penilaian berupa skor hasil tes c. apakah anda menyertakan komentar terhadap penilaian diri siswa pada lapaoran penilaian 	



Lampiran 2. *Questionnaire for Need Analysis of Self-assessment at Montessori School Bali*

Name :

Date :

No	Statements	Always	Often	Sometimes	Rarely	Never
1	<i>Self-assessment is included in the Montessori syllabus</i>					
2	<i>Include Self-assessment in every lesson plan</i>					
3	<i>Include other type of assessments in every lesson plan (test, portfolio, observation, etc)</i>					
4	<i>Use persistently a certain type of assessment in every lesson plan</i>					
5	<i>Apply Self-assessment every day</i>					
6	<i>Apply Self-assessment every week</i>					
7	<i>Apply Self-assessment term</i>					
8	<i>Self-assessment is conducted at the end of the school year</i>					
9	<i>The students are giving a test as assessment in certain period of time.</i>					
10	<i>Self-assessment is use as option to give assessment for students</i>					

11	<i>Self-assessment is used as reference to write report card</i>					
12	<i>Report card is based on the students test result</i>					
13	<i>Report card is based on the other type of assessment (observation, portfolio, etc)</i>					
14	<i>Putting students comments in the report card</i>					



Lampiran 3. Interview for Need Analysis of Self-assessment at Montessori Bali School

Name :

Date :

No	Questions	Answers
1	<i>Does Self-assessment is included in the syllabus</i>	
2	<i>Do you know what is Self-assessment? If yes, Please explain it in few words</i>	
3	<i>Do you know the importance of Self-assessment? If yes please explain it in few words</i>	
4	<i>Do you include Self-assessment you're your lesson plans?</i>	
5	<i>Do you include other type of assessment in your lesson plans?</i>	
6	<i>What type assessment are you using in your lesson plans?</i>	

7	<i>Does assessment is applied periodically?</i>	
8	<i>Does Self-assessment is applied in certain period of time? Daily, weekly, monthly, etc</i>	
9	<i>Do you think Self-assessment is important?</i>	
10	<i>Do you think Self-assessment is important for students, teachers, and parents? Why and why not?</i>	
11	<i>What types assessment do you think the best (observation, Self-assessment, portfolio, test, interview, etc)? why?</i>	
12	<i>What type of assessment are you using as information to write report card</i>	
	<i>Do you putting students comments in the report card</i>	



Lampiran 4. Kisi Kisi dan Kriteria Penilaian Self- Assessment

a. Kisi -Kisi *Self-assessment* terhadap Kemampuan Belajar (learning skills)

<i>No</i>	<i>Aspek</i>	<i>Description</i>	<i>No of item</i>
1	<i>Responsibility</i>	<i>Keeping work with care and managing well in completing school works.</i>	1,2,3,4
2	<i>Organization</i>	<i>Keeping work tidy, complete, in order and in time</i>	5,6,7,8
3	<i>Independent work</i>	<i>Focusing into works and using classroom time appropriately and wisely. Following instructions with minimal supervision</i>	9,10,11,12,13
4	<i>Collaborations</i>	<i>Listening attentively and respectfully to the teachers and others without interrupting. Helping, cooperating and supporting positively to all my friends</i>	14,15,16
5	<i>Initiative</i>	<i>Need prompting to start work in class and ask assistant when needed</i>	17,18,19,20

b. Kriteria Penilaian *self-assessment* terhadap Kemampuan Belajar (*Learning skills*)

No	Criteria	Score	Category and score equivalent
1	<i>Never</i>	1	<i>Need improvement (1-1.25)</i>
2	<i>Rarely</i>	2	
3	<i>sometimes</i>	3	<i>Satisfactory (1.26-2.50)</i>
4	<i>Often</i>	4	<i>Good (2.51-3.75)</i>
5	<i>always</i>	5	<i>Excellent (3.76-5)</i>

c. Kisi-Kisi *self-assessment* terhadap penguasaan materi pada mata pelajaran Matematika (*Understanding of Math Concept*)

No	Aspek	Problems	No of item
1	<i>Place value</i>	$23\bar{4},124 =$	1
2	<i>Multiplying whole numbers</i>	$23,456 \times 23 =$	2
3	<i>Dividing whole numbers</i>	$23,234 : 23 =$	3
4	<i>Multiplying decimal fraction</i>	$23.2 \times 7 =$	4
5	<i>Dividing decimal fraction</i>	$24.36 : 6 =$	5
6	<i>Finding square and cube of numbers</i>	$9^2 =$ $7^3 =$	6
7	<i>Finding square roots of numbers</i>	$\sqrt{81} =$	7
8	<i>Adding and subtracting fractions</i>	$\frac{1}{4} + \frac{5}{6} =$ $\frac{1}{6} - \frac{5}{12} =$	8
9	<i>Multiplying and dividing fractions</i>	$\frac{1}{6} \times \frac{5}{7} =$	9

		$\frac{1}{4} : \frac{8}{9} =$	
10	<i>Converting fractions, decimals and percents</i>	$\frac{1}{6} = \%$	10
11	<i>Adding and subtracting negative numbers</i>	$\frac{1}{4} = \%$ $-24 + 36 =$ $45 - 78 =$	11
12	<i>Multiplying and dividing negative numbers</i>	$-12 \times 3 =$ $14 : 7 =$	12



- d. Kriteria penilaian *self-assessment* terhadap penguasaan materi pada mata pelajaran Matematika (*Understanding of Math Concept*)

No	Criteria	Score	Category and score equivalent
1	<i>Don't understand the concept. Don't know how to use the materials</i>	1	<i>Need improvement (1-1.25)</i>
2	<i>Not sure understand the concept or use the materials. Need teacher for review and support.</i>	2	<i>Satisfactory (1.26-2.50)</i>
3	<i>Understand a little about the concept. Often use the materials</i>	3	<i>Good (2.51-3.75)</i>
4	<i>Understand the concept but sometimes forget. Use materials occasionally</i>	4	<i>Excellent (3.76-5)</i>
5	<i>Understand the concept work easily without materials.</i>	5	

e. Kisi-kisi *self-assessment* terhadap Proses Berpikir (*Thinking Process*) pada Mata Pelajaran Matematika

No	Aspek	Description	No of item
1	<i>Problem solving</i>	<i>Understanding the problem</i>	1,2,3
2	<i>Communication</i>	<i>Using math notation and vocabulary</i>	5, 6
3	<i>Reasoning</i>	<i>Understanding the process of solving a math problem</i>	8,10
4	<i>Connection</i>	<i>Relating math problems in everyday life</i>	7,9
5	<i>Using strategy</i>	<i>Using strategies/materials to solve math problems</i>	4,11,12

f. Kriteria Penilaian terhadap proses Berpikir (*Thinking Process*) siswa pada Mata Pelajaran Matematika

No	Criteria	Score	Category equivalent
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1	<i>Never</i>	1	<i>Novice (1-1.25)</i>
2	<i>Rarely</i>	2	<i>Apprentice (1.26-2.50)</i>
2	<i>Sometimes</i>	3	<i>Knowledgeable (2.51-3.75)</i>
3	<i>Often</i>	4	<i>Expert (3.76-5)</i>
4	<i>Always</i>	5	



Lampiran 5. Rubrik Panduan Penilaian

a. Kemampuan Belajar

	<i>Responsibility</i>	<i>Organization</i>	<i>Independent work</i>	<i>Collaboration</i>	<i>Initiative</i>
<i>Need improvement</i>	<i>I never/ rarely complete my work with care. I can't manage my own behavior</i>	<i>I never/rarely keep my work tidy, complete and in order. I never complete my work in time.</i>	<i>I never/rarely focus into my works and use class time appropriately and wisely. I never/ rarely follow instructions with minimal supervision.</i>	<i>I never/rarely listen attentively and respectfully to the teachers and respectfully to the teachers and their without interrupting. I never/rarely help, cooperate, and support positively to all my friends.</i>	<i>I always need prompting to start a task/work in class. And al never/rarely seek assistance when needed.</i>
<i>Satisfactory</i>	<i>I sometimes complete my work with care. I am often cannot manage my own behavior.</i>	<i>I sometimes keep my work tidy, complete, and in order. I sometimes complete my works on time.</i>	<i>I sometimes focus into my works and use class time appropriately and wisely. I sometimes follow instructions with minimal supervision.</i>	<i>I sometimes listen attentively and respectfully to the teachers and respectfully to the teachers and their without interrupting. I sometimes help, cooperate, and support positively to all my friends.</i>	<i>I often need prompting to start a task/work in class. And I sometimes ask assistance when needed.</i>
<i>Good</i>	<i>I often complete my work with care. I am often able mange my own behavior.</i>	<i>I often keep my works tidy, complete, and in order. I often complete my works on time.</i>	<i>I often focus into my works and use class time appropriately and wisely. I often follow instructions with</i>	<i>I often listen attentively and respectfully to the teachers and respectfully to the teachers and their without interrupting.</i>	<i>I often need prompting to start a task/work in class. And I sometimes seek assistance when needed.</i>

			<i>minimal supervision.</i>	<i>often help, cooperate, and support positively to all my friends.</i>	
<i>Excellent</i>	<i>I always complete my work with care. I always manage my own behavior</i>	<i>I always keep my works tidy, complete and in order. I always complete my works on time.</i>	<i>I always focus into y works and use class time appropriately and wisely. I always follow instructions with minimal supervision.</i>	<i>I always listen attentively and respectfully to the teachers and their without interrupting. I always help, cooperate, and support positively to all my friends.</i>	<i>I never/rarely need prompting to start a task/work in class. And I always seek assistance when needed.</i>

b. Rubrik Kemampuan Logis dan Matematis

<i>Skills</i>	<i>Need improvement</i>	<i>Satisfactory</i>	<i>Good</i>	<i>Excellent</i>
<i>Place value</i>	<i>I don't understand the concept of place value. I don't know how to use the materials.</i>	<i>I understand a little about the concept of place value and often</i>	<i>I understand the concept of place value but sometimes forget and get confused. I use</i>	<i>I understand the concept place value. I work easily without materials.</i>

		get confused. I am often use materials	materials occasionally.	
<i>Multiplying whole numbers</i>	<i>I don't understand the concept of multiplying whole numbers . I don't know how to use the materials.</i>	<i>I understand a little about the concept of multiplying whole numbers and often get confused. I am often use materials</i>	<i>I understand the concept of multiplying whole numbers but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of multiplying whole numbers. I work easily without materials.</i>
<i>Dividing whole numbers</i>	<i>I don't understand the concept of dividing whole numbers. I don't know how to use the materials.</i>	<i>I understand a little about the concept of dividing whole numbers and often get confused. I am often use materials</i>	<i>I understand the concept of dividing whole numbers but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of dividing whole numbers. I work easily without materials.</i>
<i>Multiplying Decimal fractions</i>	<i>I don't understand the concept of multiplying decimal fraction. I don't know how to use the materials.</i>	<i>I understand a little about the concept of multiplying decimal fraction and often get confused. I am often use materials</i>	<i>I understand the concept of multiplying decimal fraction but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of multiplying decimal fraction. I work easily without materials.</i>
<i>Dividing decimal fractions</i>	<i>I don't understand the concept of dividing decimals fractions. I don't</i>	<i>I understand a little about the concept of dividing decimals</i>	<i>I understand the concept of dividing decimals fractions</i>	<i>I understand the concept of dividing decimals fractions. I</i>

	<i>know how to use the materials.</i>	<i>fractions and often get confused. I am often use materials</i>	<i>but sometimes forget and get confused. I use materials occasionally.</i>	<i>work easily without materials.</i>
<i>Finding Square and cube of numbers</i>	<i>I don't understand the concept of finding square and cube of numbers. I don't know how to use the materials.</i>	<i>I understand a little about the concept of finding square and cube of numbers and often get confused. I am often use materials</i>	<i>I understand the concept of finding square and cube of numbers but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of finding square and cube of numbers . I work easily without materials.</i>
<i>Finding square roots of numbers</i>	<i>I don't understand the concept of finding square roots of numbers. I don't know how to use the materials.</i>	<i>I understand a little about the concept of finding square roots of numbers and often get confused. I am often use materials</i>	<i>I understand the concept of finding square roots of numbers but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of finding square roots of numbers . I work easily without materials.</i>
<i>Adding and subtracting fractions</i>	<i>I don't understand the concept of adding and subtracting fractions. I don't know how to use the materials.</i>	<i>I understand a little about the concept of adding and subtracting fractions and often get confused. I am often use materials</i>	<i>I understand the concept of adding and subtracting fractions but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of adding and subtracting fractions . I work easily without materials.</i>

<i>Multiplying and dividing fractions</i>	<i>I don't understand the concept Of multiplying and dividing fractions. I don't know how to use the materials.</i>	<i>I understand a little about the concept Of multiplying and dividing fractions and often get confused. I am often use materials</i>	<i>I understand the concept Of multiplying and dividing fractions but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept Of multiplying and dividing fractions. I work easily without materials.</i>
<i>Converting fractions, decimals, and percents</i>	<i>I don't understand the concept of converting fractions, decimals, and percents. I don't know how to use the materials.</i>	<i>I understand a little about the concept of converting fractions, decimals, and percents and often get confused. I am often use materials</i>	<i>I understand the concept of converting fractions, decimals, and percents but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of converting fractions, decimals, and percents . I work easily without materials.</i>
<i>Adding and subtracting negative numbers</i>	<i>I don't understand the concept of Adding and subtracting negative numbers. I don't know how to use the materials.</i>	<i>I understand a little about the concept of Adding and subtracting negative numbers and often get confused. I am often use materials</i>	<i>I understand the concept of Adding and subtracting negative numbers but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of Adding and subtracting negative numbers . I work easily without materials.</i>
<i>Multiplying and dividing negative numbers</i>	<i>I don't understand the concept of multiplying and dividing negative numbers.</i>	<i>I understand a little about the concept of multiplying and dividing negative</i>	<i>I understand the concept of multiplying and dividing negative</i>	<i>I understand the concept of multiplying and dividing</i>

	<i>I don't know how to use the materials.</i>	<i>numbers and often get confused. I am often use materials</i>	<i>numbers but sometimes forget and get confused. I use materials occasionally.</i>	<i>negative numbers. I work easily without materials.</i>
<i>Angles</i>	<i>I don't understand the concept of angles. I don't know how to use the materials.</i>	<i>I understand a little about the concept of angles and often get confused. I am often use materials</i>	<i>I understand the concept of angles but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of angles. I work easily without materials.</i>
<i>Area and Perimeter</i>	<i>I don't understand the concept of area and primeter. I don't know how to use the materials.</i>	<i>I understand a little about the concept of area and perimeter and often get confused. I am often use materials</i>	<i>I understand the concept area and perimeter but sometimes forget and get confused. I use materials occasionally.</i>	<i>I understand the concept of area and perimeter. I work easily without materials.</i>

c. Rubrik Penilaian Kemampuan Proses Berpikir (*Thinking Processs Skills*)

	<i>Problem Solving</i>	<i>Communication</i>	<i>Reasoning</i>	<i>Connections</i>	<i>Representations</i>	<i>Using strategy</i>
Novice <i>Makes little effort. No or little understanding.</i>	<i>I did not understand the problem</i>	<i>I did not use math notation correctly. I did not remember to use my math vocabulary.</i>	<i>My math thinking is a little confused</i>	<i>I did not notice any patterns or connections in the problem.</i>	<i>I did not use any representation to help me to understand and solve the problem.</i>	<i>I did not use tools/materials strategically.</i>
Apprentice <i>Makes a good try some pieces are still missing.</i>	<i>I understand part of the problem. My strategy was unclear</i>	<i>I correctly used some notation and/or some math vocabulary</i>	<i>Some of my math thinking is well thought and out and correct</i>	<i>I noticed something but it didn't relate to the problem.</i>	<i>I tried to use representations to help me solve the problem but it had errors in it.</i>	<i>I sometimes used tools/materials strategically but occasionally over used them</i>
Knowledgeable <i>Good understanding. Meets the standard. Well done.</i>	<i>I understood the problem and my strategy works. My answer is correct.</i>	<i>I correctly used math notation and math vocabulary throughout my work.</i>	<i>All of my math is well thought out and correct I noticed something related to the problem. I could create my own problem of this type.</i>	<i>I noticed something to the problem. I could create my own problem of this type.</i>	<i>I used my representation to help me solve the problem. It was labeled and was correct</i>	<i>I used tools/materials strategically throughout the problem solving proses.</i>
Expert <i>Outstanding work! Express a deep understanding and</i>	<i>I understood the problem and followed my plan with precision. I checked that my</i>	<i>I used specific math vocabulary and notation in the correct context throughout my work</i>	<i>I explained my math thinking throughout the process. My thinking was correct</i>	<i>I noticed patterns and connections in the problem, I even created my</i>	<i>I used representation to solve the problem correctly. It was labeled and I used it to explain my work</i>	<i>I used tools/material only when it improved the problem solving process.</i>

<i>goes beyond the standard</i>	<i>answer made sense</i>			<i>own problem this type.</i>		
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Lampiran 6. Lembar validasi *Self-assessment* pada Mata Pelajaran Matematika.

a. Learning Skills (Kemampuan Belajar) *Self-assessment*

PETUNJUK PENGISIAN

1. Melalui lembar penilaian ini Bapak/Ibu dimintai pendapatnya tentang lembar validasi yang telah dibuat untuk mengumpulkan data penelitian.
2. Pendapat yang Bapak/Ibu berikan pada setiap butir pernyataan yang terdapat dalam lembar penilaian instrumen validasi ini akan digunakan sebagai masukan untuk menyempurnakan pembuatan lembar validasi yang akan digunakan untuk mengumpulkan data penelitian.
3. Mohon berikan pendapat Bapak/Ibu dengan memberikan tanda centang (√), pada salah satu kolom yang telah disediakan
4. Identitas Bapak/Ibu mohon diisi dengan lengkap Nama

Validator : _____

<u>No</u>	<u>Aspek</u>	<u>No butir</u>	<u>Statement</u>	<u>Relevan</u>	<u>Tidak Relevan</u>	<u>Kritik dan saran</u>
1	responsibility	1	I complete my work with care			
		2	I present my work as best as I can			
		3	I manage myself when there is a work to complete			
		4	I aware that that my responsibility toward my work result.			

2	Organization	5	I keep my work neat and tidy			
		6	I keep my work complete and in order			
		7	I plan my work with care			
		8	I complete my works in time.			
3	Independent work	9	I focus into my works			
		10	I use my class time wisely			
		11	I manage my classroom time appropriately			
		12	I complete my work independently			
		13	I follow instructions with minimal supervision.			
4		14	I listen attentively and respectfully to the teachers and others without interrupting			
		15	I participate and cooperate to the group work			

		16	I help and support positively to all my friends			
5	Initiative	17	I need prompting to start a task/work in class			
		18	I know what I should be doing in the classroom			
		19	When I find a problem I know what I should do			
		20	I seek assistance when needed			

KEPUTUSAN

Petunjuk: Silahkan Bapak/Ibu berikan tanda centang (√) pada kolom A, B atau C untuk memberikan kesimpulan terhadap instrument Self-assessment pada mata pelajaran Matematika di Sekolah Montessori Bali.

Huruf A, B atau C mempunyai arti sebagai berikut:

A = valid tanpa revisi B = valid setelah direvisi C = tidak valid

A	B	C

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Validator

b. The Understanding of Math Concept (Penguasaan Materi Pembelajaran) Self-assessment

PETUNJUK PENGISIAN

1. Melalui lembar penilaian ini Bapak/Ibu dimintai pendapatnya tentang lembar validasi yang telah dibuat untuk mengumpulkan data penelitian.
2. Pendapat yang Bapak/Ibu berikan pada setiap butir pernyataan yang terdapat dalam lembar penilaian instrumen validasi ini akan digunakan sebagai masukan untuk menyempurnakan pembuatan lembar validasi yang akan digunakan untuk mengumpulkan data penelitian.
3. Mohon berikan pendapat Bapak/Ibu dengan memberikan tanda centang (✓), pada salah satu kolom yang telah disediakan
4. Identitas Bapak/Ibu mohon diisi dengan lengkap Nama

Validator : _____

No	Topics	Problems	Relevan	Tidak relevan	Kritik dan saran
1	Place value	$234,124 =$			
2	Multiplying whole numbers	$23,456 \times 23 =$			
3	Dividing whole numbers	$23,234 : 23 =$			
4	Multiplying Decimal fractions	$23.2 \times 7 =$			
5	Dividing decimal fractions	$24.36 : 6 =$			
6	Finding Square and cube of numbers	$9^2 =$ $7^3 =$			

7	<i>Finding square roots of numbers</i>	$\sqrt{81} =$			
8	<i>Adding and subtracting fractions</i>	$\frac{1}{4} + \frac{5}{6} =$ $\frac{1}{6} - \frac{5}{12} =$			
9	<i>Multiplying and dividing fractions</i>	$\frac{1}{6} \times \frac{5}{7} =$ $\frac{1}{4} : \frac{8}{9} =$			
10	<i>Converting fractions, decimals, and percents</i>	$\frac{1}{6} = \%$ $\frac{1}{4} = \%$			
11	<i>Adding and subtracting negative numbers</i>	$-24 + 36 =$ $45 - 78 =$			
12	<i>Multiplying and dividing negative numbers</i>	$-12 \times 3 =$ $14 : 7 =$			

KEPUTUSAN

Petunjuk: Silahkan Bapak/Ibu berikan tanda centang (√) pada kolom A, B atau C untuk memberikan kesimpulan terhadap instrument Self-assessment pada mata pelajaran Matematika di Sekolah Montessori Bali.

Huruf A, B atau C mempunyai arti sebagai berikut:

A = valid tanpa revisi B = valid setelah direvisi C = tidak valid

A	B	C

Denpasar,.....2018

.....

Validator

c. Thinking Process (proses Berpikir) Self-assessment

PETUNJUK PENGISIAN

1. Melalui lembar penilaian ini Bapak/Ibu dimintai pendapatnya tentang lembar validasi yang telah dibuat untuk mengumpulkan data penelitian.

2. Pendapat yang Bapak/Ibu berikan pada setiap butir pernyataan yang terdapat dalam lembar penilaian instrumen validasi ini akan digunakan sebagai masukan untuk menyempurnakan pembuatan lembar validasi yang akan digunakan untuk mengumpulkan data penelitian.

3. Mohon berikan pendapat Bapak/Ibu dengan memberikan tanda centang (√), pada salah satu kolom yang telah disediakan

4. Identitas Bapak/Ibu mohon diisi dengan lengkap Nama

Validator : _____

NO	Kriteria	Nomor Butir	Statement	Relevan	Tidak Relevan	Kritik dan Saran
1	Problem Solving	1	When I got a math problem, I read the problem carefully			
		2	When I don't understand the problem, I reread it and try to make sense the problems			
		3	When I understand the problem, I am thinking the possible ways to find the answer			
2	Communication	5	I understand when my friend and friends saying words such as: "multiplication, division, addition, subtraction, etc"			
		6	I use words such as: " add, take away, divide, etc " to my teachers and friends everyday			
3	Reasoning	8	If my teacher and classmate ask me how do I solve the math problem, I could explain it clearly			
		10	I know what to do when I get math problem at home, for example: my dad give me Rp 100,000 that have to be shared			

			<i>equally with my other 3 siblings. How much each of will get?</i>			
4	Connection	7	<i>I use math in everyday life such as measuring in cooking or counting during play time.</i>			
		9	<i>I can relate math in everyday life such as; buying, selling, exchanging, at the supermarket</i>			
5	Using Strategy	4	<i>I use Montessori materials to solve the problems</i>			
		11	<i>I used my own strategy to solve math problems</i>			
		12	<i>If one strategy doesn't work, I try different ways</i>			

KEPUTUSAN

Petunjuk: Silahkan Bapak/Ibu berikan tanda centang (√) pada kolom A, B atau C untuk memberikan kesimpulan terhadap instrument Self-assessment pada mata pelajaran Matematika di Sekolah Montessori Bali.

Huruf A, B atau C mempunyai arti sebagai berikut:

A = valid tanpa revisi B = valid setelah direvisi C = tidak valid

A	B	C

Denpasar,.....2018

(.....)

Validator

Lampiran 7. Desain Awal *Self-assessment* pada Mata Pelajaran Matematika.

a. *Learning Skills*

Name _____ :

Grade _____ :

Date _____ :

Asses yourself of 1 to 4 on each item of listed below
(1= Need Improvement, 2= Satisfactory, 3 =Good, 4= Excellent)

<u>NO</u>	<u>Skills</u>	<u>Statement</u>	<u>Student</u>	<u>Teacher</u>	<u>Comments</u>
<u>1</u>	<i>Responsibility</i>	<i>I complete my work with care</i>			
		<i>I manage my own behavior</i>			
<u>2</u>	<i>Organization</i>	<i>I keep my works tidy, complete, and in order.</i>			
		<i>I complete my works on time.</i>			
<u>3</u>	<i>Independent work</i>	<i>I focus into my works and use class time appropriately and wisely.</i>			
		<i>I follow instructions with minimal supervision.</i>			
<u>4</u>	<i>Collaboration</i>	<i>I listen attentively and respectfully to the teachers and others without interrupting</i>			
		<i>I help, cooperate, and support positively to all my friends</i>			
<u>5</u>	<i>Initiative</i>	<i>I don't need prompting to start a task/work in class</i>			
		<i>I seek assistance when needed</i>			

1. Math topics that I like the most are

.....

.....
.....

2. Things that I did well in math are

.....
.....

3. One of the easiest way for me to learn math is

.....
.....

4. The best part about math

is.....

5. The worst part about math

is.....

6. Math skills that I would like to learn are

.....
.....

7. Skills in math that I need to work harder to learn are

.....
.....

8. If I were the teacher, I would

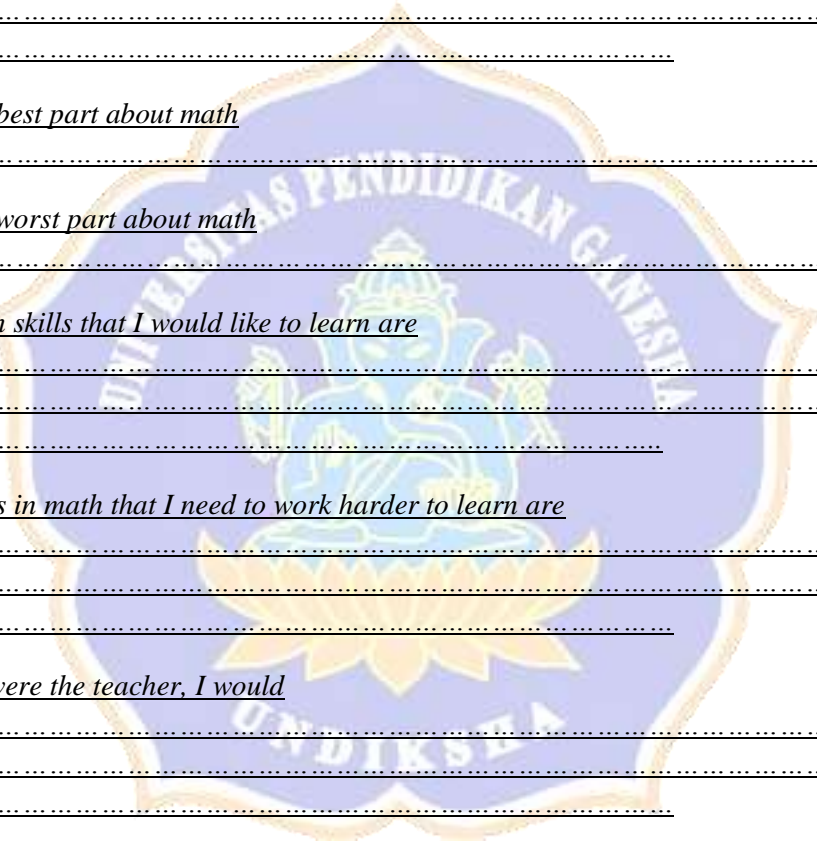
.....
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9. One of my best problem strategies is

.....
.....

10. If I find difficulties in math, I will

.....
.....



11. To improve my work habits and learning skills, I will

.....

.....

.....

.....



b. Logical and Mathematic Skills

Name :

Grade :

Date :

Asses yourself of 1 to 4 on each item of listed below
(1= Need Improvement, 2= Satisfactory, 3 =Good, 4= Excellent)

No	Topics	Student	Teacher	Comments
1	Place value			
2	Multiplying whole numbers			
3	Dividing whole numbers			
4	Multiplying Decimal fractions			
5	Dividing decimal fractions			
6	Finding Square and cube of numbers			
7	Finding square roots of numbers			
8	Adding and subtracting fractions			
9	Multiplying and dividing fractions			
10	Converting fractions, decimals, and percents			
11	Adding and subtracting negative numbers			
12	Multiplying and dividing negative numbers			
13	Angles			
14	Area and Perimeter			
	Total			My Total Average is =/18 =

I amin math

c. Thinking Process Self-assessment

Name :

Year :

Date :

Assess yourself of 1 to 4 on each item of listed below
(1=Novice , 2 = apprentice , 3= Knowledgeable , 4= expert)

NO	Skills	Statement	Student	Teacher	Comments
1	Problem solving	<i>I understand the problem and followed my plan with precision. I checked that my answer made sense.</i>			
2	Communication	<i>I used specific math vocabulary and notation in the correct context.</i>			
3	Reasoning	<i>I explained my math thinking throughout the process My thinking Was correct.</i>			
4	Connections	<i>I notice patterns and connections in the problems, I even create my own problem this type.</i>			
5	Representations	<i>I used representation to solve the problem correctly.</i>			
6	Using strategy	<i>I used tools/material only when it improved the problem solving process.</i>			
	Total score				

Lampiran 8. Draft Akhir. Lembar *Self-assessment* pada Mata Pelajaran Matematika.

a. Learning Skills (Kemampuan Belajar)

Name _____ :

Grade _____ :

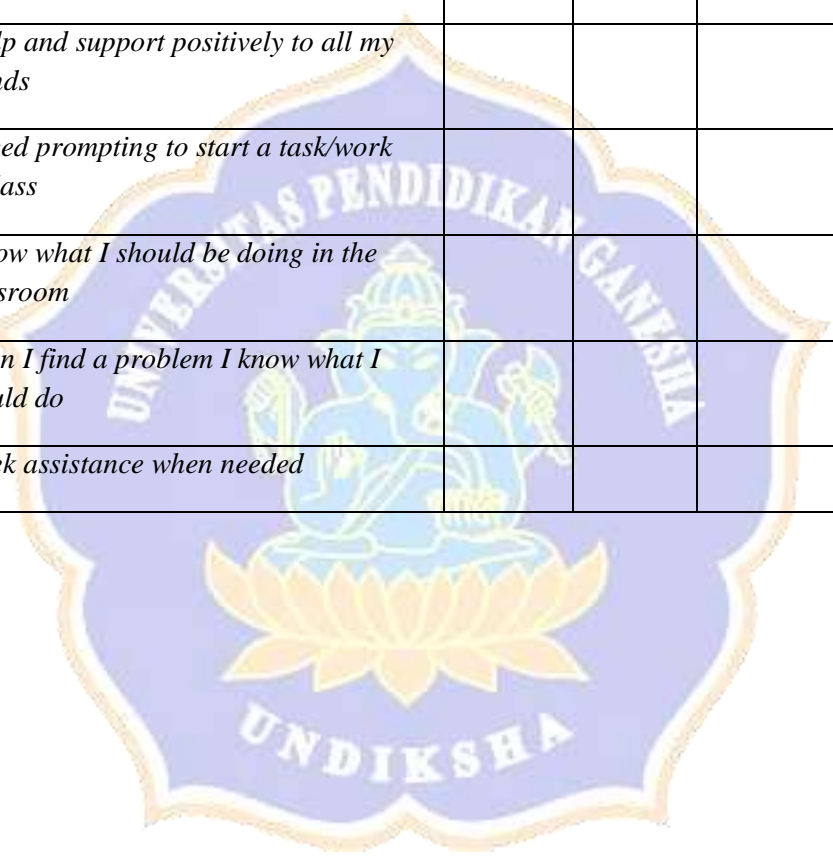
Date _____ :

Asses yourself of on each item of listed below

1 : Never 2: Rarely 3 : Sometimes 4 : Often 5 :Always

<u>No</u>	<u>Statement</u>	<u>Student</u>	<u>Teacher</u>	<u>Teacher's Comments</u>
1	<i>I complete my work with care</i>			
2	<i>I present my work as best as I can</i>			
3	<i>I manage myself well when there is a work to complete</i>			
4	<i>I aware that my responsibility toward my work affect the result of my work</i>			
5	<i>I keep my work neat and tidy</i>			
6	<i>I keep my work complete and in order</i>			
7	<i>I plan my work with care</i>			
8	<i>I complete my works in time.</i>			
9	<i>I focus into my works</i>			
10	<i>I use my class time wisely</i>			
11	<i>I manage my classroom time appropriately</i>			

12	<i>I complete my work independently</i>			
13	<i>I follow instructions with minimal supervision.</i>			
14	<i>I listen attentively and respectfully to the teachers and others without interrupting</i>			
15	<i>I participate and cooperate to the group work</i>			
16	<i>I help and support positively to all my friends</i>			
17	<i>I need prompting to start a task/work in class</i>			
18	<i>I know what I should be doing in the classroom</i>			
19	<i>When I find a problem I know what I should do</i>			
20	<i>I seek assistance when needed</i>			



c. Logic and mathematic (kemampuan logis dan matematis)

Name :

Grade :

Date :

Asses yourself on each item of listed below

1 : I don't understand at al. I don't know how to use the material

2 : I am not sure that I understand and I always need to use the materials. I need my teacher for review and support

3 : I understand but sometimes I forget and get confused. I often use the materials

4: I understand and I only use the materials occasionally.

5. I understand and I completely easily without materials.

Note : You Don't Have to complete the problems

No	Topics	Problems examples	Student	Teacher	Teacher's Comments
1	Place value	$234,124 =$			
2	Multiplying whole numbers	$23,456 \times 23 =$			
3	Dividing whole numbers	$23,234 : 23 =$			
4	Multiplying Decimal fractions	$23.2 \times 7 =$			
5	Dividing decimal fractions	$24.36 : 6 =$			
6	Finding Square and cube of numbers	$9^2 =$ $7^3 =$			

7	<i>Finding square roots of numbers</i>	$\sqrt{81} =$			
8	<i>Adding and subtracting fractions</i>	$\frac{1}{4} + \frac{5}{6} =$ $\frac{1}{6} - \frac{5}{12} =$			
9	<i>Multiplying and dividing fractions</i>	$\frac{1}{6} \times \frac{5}{7} =$ $\frac{1}{4} : \frac{8}{9} =$			
10	<i>Converting fractions, decimals, and percents</i>	$\frac{1}{6} = \%$ $\frac{1}{4} = \%$			
11	<i>Adding and subtracting negative numbers</i>	$-24 + 36 =$ $45 - 78 =$			
12	<i>Multiplying and dividing negative numbers</i>	$-12 \times 3 =$ $14 : 7 =$			



c. Thinking Process Skills (proses Berpikir) Self-assessment

Name :

Year :

Date :

Assess yourself on each item of listed below				
1 : Never	2 : Rarely	3 : Sometimes	4 : Often	5 : Always

NO	Statement	Student	Teacher	Teacher's Comments
1	When I get a math problem, I try to understand the problem			
2	After understand problem, I try to think of the possible ways to solve it			
3	After think of the possible ways, I try to use them to solve the problems			
4	I use Montessori materials to solve math problems			
5	I understand when my friends and teachers saying words such as: "multiplication, division, addition, subtraction, etc"			
6	I use words such as: " add, subtract, divide, multiply etc " to my teachers and friends everyday			
7	I use math in everyday life such as measuring in cooking or counting during play time.			
8	If my teacher and classmate ask me how do I solve the math problem, I could explain it clearly			
9	I can relate math that I learn at school in everyday life such as; buying stuffs at a supermarket			
10	I know to explain the steps of how I solve a math problem			
11	I used my own strategy to solve math problems			
12	If one strategy doesn't work, I will try different ways			

RIWAYAT HIDUP



Mahmud Abdul Halim: lahir di Banyuwangi, Jawa Timur tanggal 15 Oktober 1986. Ia merupakan putra pertama dua bersuadara dari pasangan Dalhar dan Kasmiyatun. Pada Tahun 1992 dia bersama keluarga mengikuti program transmigrasi di pulau Buton Sulawesi Tenggara dan menyelesaikan pendidikan dasar pada tahun 1997 di SDN 1 Marga Karya, Kulisusu, Buton Utara Sulawesi Tenggara. Setelah menyelesaikan Madrasah Tsanawiyah Bahrul Ulum di desa Marga Karya, Buton Utara, dia melanjutkan ke SMU 1 Kulisusu hingga tahun 2005. Pada tahun yang sama dia menjadi mahasiswa di Universitas Negeri Gorontalo dan menyelesaikan program sarjana pendidikan pada tahun 2009. Setelah menyelesaikan jenjang S1, dia bekerja sebagai Testing Meneger dan staff pengajar di Pusat Bahasa Universitas Negeri Gorontalo. Pada tahun 2011, dia mewakili provinsi Gorontalo sebagai duta muda untuk program Pertukaran Pemuda Indonesai dan Australia. Sekembalinya dari Australia, dia bekerja sebagai guru Di sekolah Montessori Bali. Pada tahun 2015, dia menyelesaikan diploma sebagai guru Montessori dari *North America Montessori Centre*.