### Assessment of Grade 1 Numeracy

The assessment of Grade 1 Numeracy is organized on the basis of a Concepts, Algorithms, Skills Hierarchy of development (a CASH map). This map lays out a sequence for assessing as well as teaching.

Note that outcome 1.N.2 (concerns subitizing) is not assessed for two reasons: (1) not a conceptual matter and (2) not sufficiently critical to numeracy beyond Grade 1. However, the outcome is included in the CASH map for purposes of teaching.

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<ul> <li>1.N.1</li> <li>Say the number sequence by <ul> <li>1s forward and backward between any two given numbers (0 to 100)</li> <li>2s to 20, forward starting at 0</li> <li>5s and 10s to 100, forward starting at 0</li> </ul> </li> </ul>	1.N.2. (NOT ASSESSED) Subitize and name familiar arrangements of 1 to 10 objects or dots.
<ul> <li>1.N.3.</li> <li>Demonstrate an understanding of counting by <ul> <li>using the counting on strategy</li> <li>using parts or equal groups to count sets</li> </ul> </li> </ul>	1.N.4. Represent and describe numbers to 20 in two parts concretely, pictorially, and symbolically.
<ul> <li>1.N.5.</li> <li>Compare and order sets containing up to 20 elements to solve problems using <ul> <li>referents</li> <li>one-to-one correspondence</li> </ul> </li> </ul>	1.N.6. Estimate quantities to 20 by using referents.
1.N.7. Demonstrate, concretely and pictorially, how a given number can be represented by a variety of equal groups with and without singles.	<ol> <li>N.8.</li> <li>Identify the number, up to 20, that is one more, two more, one less, and two less than a given number.</li> </ol>
<ul> <li>1.N.9.</li> <li>Demonstrate an understanding of addition of numbers with answers to 20 and their corresponding subtraction facts, concretely, pictorially, and symbolically by <ul> <li>using familiar and mathematical language to describe additive and subtractive actions from their experience</li> <li>creating and solving problems in context that involve addition and subtraction</li> <li>modelling addition and subtraction using a variety of concrete and visual representations, and recording the process symbolically</li> </ul> </li> </ul>	<ul> <li>1.N.10.</li> <li>Describe and use mental mathematics strategies (memorization not intended), such as <ul> <li>counting on and counting back</li> <li>making 10</li> <li>doubles</li> <li>using addition to subtract</li> </ul> </li> <li>to determine the basic addition facts to 18 and related subtraction facts.</li> </ul>

Grade 1 CASH map





### Summary of results

#### 1.N.1 (rote counting)

- Emergent knowledge (total score of 5 or less)
- Low level developed knowledge (total score between 6 and 9 inclusive)
- \_\_\_\_\_ Mid level developed knowledge (total score between 10 and 14 inclusive)
- High level developed knowledge (total score of 15 or more)

### 1.N.1 and part of 1.N.4 (numeral and number word decoding)

- Emergent knowledge (total score of 4 or less)
- Low level developed knowledge (total score between 4 and 9 inclusive)
- \_\_\_\_\_ Mid level developed knowledge (total score between 10 and 13 inclusive)
- High level developed knowledge (total score of 14 or more)

#### 1.N.3 (counting strategies)

- Emergent knowledge (total score of 7 or less)
- Low level developed knowledge (total score between 8 and 14 inclusive)
- Mid level developed knowledge (total score between 15 and 23 inclusive)
- High level developed knowledge (total score of 24 or more)

### 1.N.4 (representing to 20)

- Emergent knowledge (total score of 3 or less)
- Low level developed knowledge (total score between 4 and 6 inclusive)
- Mid level developed knowledge (total score between 7 and 10 inclusive)
- High level developed knowledge (total score of 11 or more)

#### 1.N.5 (compare and order to 20)

- Emergent knowledge (total score of 2 or less)
- Low level developed knowledge (total score between 3 and 4 inclusive)
- Mid level developed knowledge (total score between 5 and 7 inclusive)
- High level developed knowledge (total score of 8 or more)

#### 1.N.6 (estimating strategies)

- Emergent knowledge (total score of 1 or less)
- Low level developed knowledge (total score of 2)
- Mid level developed knowledge (total score between 3 and 4 inclusive)
- High level developed knowledge (total score of 5 or more)

### 1.N.7 (partitioning into equal parts)

- Emergent knowledge (total score of 3 or less)
- Low level developed knowledge (total score between 4 and 6 inclusive)
- Mid level developed knowledge (total score between 7 and 10 inclusive)
- High level developed knowledge (total score of 11 or more)

#### 1.N.8 (one or two more/less)

- \_\_\_\_ Emergent knowledge (total score of 3 or less)
- Low level developed knowledge (total score between 4 and 6 inclusive)
- Mid level developed knowledge (total score between 7 and 10 inclusive)
- \_\_\_\_\_ High level developed knowledge (total score of 10 or more)

### 1.N.9 (meaning of addition)

- Emergent knowledge (total score of 4 or less)
- Low level developed knowledge (total score between 5 and 8 inclusive)
- Mid level developed knowledge (total score between 9 and 13 inclusive)
- High level developed knowledge (total score of 14 or more)

#### 1.N.9 (meaning of subtraction)

- Emergent knowledge (total score of 4 or less)
- Low level developed knowledge (total score between 5 and 8 inclusive)
- Mid level developed knowledge (total score between 9 and 13 inclusive)
- High level developed knowledge (total score of 14 or more)

#### 1.N.10 (mental math strategies)

- Emergent knowledge (total score of 5 or less)
- Low level developed knowledge (total score between 6 and 10 inclusive)
- Mid level developed knowledge (total score between 11 and 15 inclusive)
- High level developed knowledge (total score of 16 or more)

### **Instructions.**

- Do as indicated for each task. The order of listing of the assessment items DOES NOT indicate the order of assessing or teaching. Refer to the CASH map for direction on sequencing.
- Ensure that the student understands what you are expecting him/her to do but DO NOT ٠ help the student by giving hints or answers to a task.
- ٠ For scoring a student response (see example below), write a 0, 1, 2, or 3 (sometimes more than 3) in the appropriate response slot.
  - 0: Has errors in saying number words from 5 to 10.
  - 1: Says number words without error from 5 to 10.
  - \_\_\_\_\_ 2: Says number words without error from 5 to 20.
  - 3: Says number words without error from 5 to 30.
- For observations (see below), deduct .25 or .5 if the student is hesitant in responding to a task. Add .25 or .5 if the student responds with confidence. If the student self-corrects, no point is deducted or added. Use your judgment on deciding this for each task. The matter has to do with what the student does MOSTLY on a particular task.
  - Hesitant
  - Self-corrects Confident
- If there is an additional question indicated for a task, ask it and record the student's answer. Follow the scoring instructions attached to the additional question.
- Record any other observations you deem noteworthy.
- Calculate the total score for assessing a particular outcome by adding the student response values for the tasks and adding/deducting any observation scores. Write the total score in the indicated place at the end of the tasks.
- Use the total score to determine which level (emergent, low level developed, ...) the student is in for the outcome. Place a check mark in the appropriate slot in the summary page (see example below).
  - Emergent knowledge (total score of 2 or less)
  - Low level developed knowledge (total score between 3 and 4 inclusive)
  - Mid level developed knowledge (total score between 5 and 7 inclusive)
  - High level developed knowledge (total score of 8 or 9)
- When determining which level the student is at for an outcome also include any relevant information obtained from 'Other observations' to help determine the level.

### Assessment for 1.N.1 (rote counting)

<u>ITEM 1</u> :	
• Ask the student to say the counting words starting with 35 and stopping with 41.	
• Ask the student to say the counting words starting with 62 and stopping with 73.	
• Ask the student to say the counting words starting with 89 and stopping with 100.	
0: Has error(s) in each task.	
1: Has error(s) in two of the three tasks.	Hesitant
2: Has error(s) in one of the three tasks.	Self-corrects
3: Has no errors.	Confident
Other observations	

ITEM 2:

- Ask the student to say the counting words starting with 44 and stopping with 38.
  Ask the student to say the counting words starting with 77 and stopping with 69.
  Ask the student to say the counting words starting with 93 and stopping with 85.

0: Has error(s) in each task. 1: Has error(s) in two of the three tasks. 2: Has error(s) in one of the three tasks	Hesitant
3: Has no errors.	Confident
Other observations	

<u>ITEM 3</u> :	
Ask the student to skip count by 2s from 0 to 20.	
1 5	
0: Has 3 errors.	
1: Has 2 errors.	Hesitant
2: Has 1 error.	Self-corrects
3: Has no errors.	Confident
Other observations	

<u>ITEM 4</u> :	
Ask the student to skip count by 5s from 0 to 100.	
0: Has 3 errors.	
1: Has 2 errors.	Hesitant
2: Has 1 error.	Self-corrects
3: Has no errors.	Confident
Other observations	

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<u>ITEM 6</u> :	
• Show student a card having 12, 15, 14, 16 on it. Say the number words for the numerals	
with the student. Repeat as needed. Tell the student there is one mistake in the order of	
the counting words on the card. Ask the student to find and to correct the error.	
• Show student a card having 38, 39, 43, 41 on it. Say the number words for the numerals	
with the student. Repeat as needed. Tell the student there is one mistake in the order of	
the counting words on the card. Ask the student to find and to correct the error.	
• Show student a card having 76, 80, 77, 79 on it. Say the number words for the numerals	
with the student. Repeat as needed. Tell the student there is one mistake in the order of	
the counting words on the card. Ask the student to find and to correct the error.	
0: Incorrectly finds/incorrectly corrects 3 times.	
1: Finds and corrects one error.	Hesitant
2: Finds and corrects two errors.	Self-corrects
3: Finds and corrects the three errors.	Confident
Other observations	•

## Assessment for 1.N.1 & part of 1.N.4 (numeral and number word decoding)

<u>ITEM 1:</u>	
Show student a card having the numerals 37, 41, 34 on it. Ask student to say the counting word	
for each numeral on the card.	
0: Has 3 errors.	
1: Has 2 errors.	Hesitant
2: Has 1 error.	Self-corrects
3: Has no errors.	Confident
Other observations	

<u>ITEM 2:</u>		
Show student a card having the numerals 72, 63, 68 on it. Ask student to say the counting word		
for each numeral on the card.		
0: Has 3 errors.		
1: Has 2 errors.	Hesitant	
2: Has 1 error.	Self-corrects	
3: Has no errors.	Confident	
Other observations		

<u>ITEM 3:</u>	
Show student a card having the numerals 96, 94, 88 on it. Ask student to say the counting word	
for each numeral on the card.	
0: Has 3 errors.	
1: Has 2 errors.	Hesitant
2: Has 1 error.	Self-corrects
3: Has no errors.	Confident
Other observations	

<u>ITEM 4:</u>		
Show student a card having the words; 'four, one, seven' on it. Ask student to read each number		
word on the card.		
0: Has 3 errors.		
1: Has 2 errors.	Hesitant	
2: Has 1 error.	Self-corrects	
3: Has no errors.	Confident	
Other observations		

<u>ITEM 5:</u>	
Show student a card having the words; 'nine, twelv	ve, ten' on it. Ask student to read each number
word on the card.	
0: Has 3 errors.	
1: Has 2 errors.	Hesitant
2: Has 1 error.	Self-corrects
3: Has no errors.	Confident
Other observations	

<u>ITEM 6:</u>		
Show student a card having the words; 'twenty, eighteen, fifteen' on it. Ask student to read each		
number word on the card.		
0: Has 3 errors.		
1: Has 2 errors.	Hesitant	
2: Has 1 error.	Self-corrects	
3: Has no errors.	Confident	
Other observations		

## Assessment for 1.N.3 (counting strategies)

<u>ITEM 1:</u>		
Place 8 counters on the table. Count out 3 counters for the student and push them to the side a		
bit. Ask the student to tell you how many counters are on the table.		
0: Starts counting from 1.		
1: Starts counting from 3 and makes no error (or error) in counting.	Hesitant	
2: Starts counting from 4 and makes error in counting.	Self-corrects	
3: Starts counting from 4 and makes no error in counting.		
Other observations		

<u>ITEM 2:</u>		
Place 14 counters on the table. Count out 8 counters for the student and push them to the side a		
bit. Ask the student to tell you how many counters are on the table.		
0: Starts counting from 1.		
1: Starts counting from 8 and makes no error (or error) in counting.	Hesitant	
2: Starts counting from 9 and makes error in counting.	Self-corrects	
3: Starts counting from 9 and makes no error in counting.	Confident	
Other observations		

<u>ITEM 3:</u>	
Place 18 counters on the table. Count out 12 counters for the student and push	them to the side a
bit. Ask the student to tell you how many counters are on the table.	
0: Starts counting from 1. 1: Starts counting from 12 and makes no error (or error) in counting.	Hesitant
2. Starts counting from 13 and makes error in counting.	Self-corrects
3: Starts counting from 13 and makes no error in counting.	Confident
Other observations	

<u>ITEM 4:</u>	
• Place 10 counters on the table. Ask student to tell you how many	counters on the
table by counting by 2s'.	
• Place 24 counters on the table. Ask student to tell you how many	counters on the
table by counting by 2s'.	
• Place 36 counters on the table. Ask student to tell you how many	counters on the
table by counting by 2s'.	
0: Has error(s) in each task.	
1: Has error(s) in two of the three tasks.	Hesitant
2: Has error(s) in one of the three tasks.	Self-corrects
3: Has no errors. Confident	
Other observations	

<u>ITEM 5:</u>	
• Place 15 counters on the table. Ask student to tell you how many counters on the	
table by counting by 5s'.	
• Place 25 counters on the table. Ask student to tell you how many counters on the	
table by counting by 5s'.	
• Place 40 counters on the table. Ask student to tell you how many counters on the	
table by counting by 5s'.	
0: Has error(s) in each task.	
1: Has error(s) in two of the three tasks.	Hesitant
2: Has error(s) in one of the three tasks.	Self-corrects
3: Has no errors.	Confident
Other observations	

<u>ITEM 6:</u>		
• Place 20 counters on the table. Ask student to tell you how many counters on the		
table by counting by 10s'.		
• Place 40 counters on the table. Ask student to tell you how many counters on the		
table by counting by 10s'.		
• Place 60 counters on the table. Ask student to tell you how many counters on the		
table by counting by 10s'.		
0: Has error(s) in each task.		
1: Has error(s) in two of the three tasks.	Hesitant	
2: Has error(s) in one of the three tasks.	Self-corrects	
3: Has no errors.		
Other observations		

<u>ITEM 7:</u> Place 30 counters on the table. Count out 16 counters for the student by count them to the side a bit. Ask the student to tell you how many counters are on th	ting by 2s, and push ne table.
0: Starts counting from 0 or 1 by 1's.         1: Starts counting from 0 or 2 by 2s.         2: Counts from 16 by 2s and makes no error (or error) in counting.         3: Counts from 18 by 2s and makes error in counting.         4: Counts from 18 by 2s and makes no error in counting.	Hesitant     Self-corrects     Confident
Other observations	

<u>ITEM 8:</u>		
Place 40 counters on the table. Count out 15 counters for the student by counting by 5s, and push		
them to the side a bit. Ask the student to tell you how many counters are on the	he table.	
0: Starts counting from 0 or 1 by 1's.		
1: Starts counting from 0 or 5 by 5s.	Hesitant	
2: Counts from 15 by 5s and makes no error (or error) in counting.	Self-corrects	
3: Counts from 20 by 5s and makes error in counting.	Confident	
4: Counts from 20 by 5s and makes no error in counting.		
Other observations	•	

<u>ITEM 9:</u> Place 60 counters on the table. Count out 30 counters for the student by count	ing by 10s, and	
push them to the side a bit. Ask the student to tell you how many counters are on the table.		
0: Starts counting from 0 or 1 by 1's.         1: Starts counting from 0 or 10 by 10s.         2: Counts from 30 by 10s and makes no error (or error) in counting.         3: Counts from 40 by 10s and makes error in counting.         4: Counts from 40 by 10s and makes no error in counting.	Hesitant Self-corrects Confident	
Other observations		

### Assessment for 1.N.4 (represent to 20)

### ITEM 1:

- Provide student with 13 counters. Ask student to use some of the counters to make two piles and to tell how many counters in each pile.
- Provide student with 17 counters. Ask student to use some of the counters to make two piles and to tell how many counters in each pile.
- Provide student with 20 counters. Ask student to use ALL of the counters to make two piles and to tell how many counters in each pile.
- 0: Has 3 errors. 1: Has 2 errors.
- 2: Has 1 error.
  - 3: Has no errors.

Other observations

 Hesitant
Self-corrects
Confident
 Self-corrects Confident

<u>ITEM 2:</u>		
• Provide student with three base-10 ten-sticks and 10 units. Ask student to build/show 9.		
• Provide student with three base-10 ten-sticks and 10 units. Ask student to build/show 16.		
• Provide student with three base-10 ten-sticks and 10 units. A	Ask student to build/show 20.	
0: Cannot do any of the tasks correctly.		
1: Does one task correctly.	Hesitant	
2: Does two tasks correctly.	Self-corrects	
3: Does all three tasks correctly.	Confident	
Other observations		

ITEM 3:		
• Provide student with three empty ten-frames. Ask student to build/show 8.		
• Provide student with three empty ten-frames. Ask student to build/show 5.		
• Provide student with three empty ten-frames. Ask student to build/show 20.		
0: Cannot do any of the tasks correctly.		
1: Does one task correctly.	Hesitant	
2: Does two tasks correctly.	Self-corrects	
3: Does all three tasks correctly.	Confident	
Other observations		



### Assessment for 1.N.5 (compare and order to 20)

### ITEM 1:

• Show student a pile of 8 counters and a pile of 9 counters. DO NOT tell him/her how many	
counters are in the piles. Ask student to tell which pile has more	/fewer counters or if the piles
have the same number of counters by matching counters.	
• Show student a pile of 11 counters and a pile of 13 counters. DO	O NOT tell him/her how
many counters are in the piles. Ask student to tell which pile has	s more/fewer counters or if
the piles have the same number of counters by matching counter	rs.
• Show student a pile of 15 counters and a pile of 15 counters. DO	O NOT tell him/her how
many counters are in the piles. Ask student to tell which pile has more/fewer counters or if	
the piles have the same number of counters by matching counters.	
0: Cannot do any of the tasks correctly.	
1: Does one task correctly.	Hesitant
2: Does two tasks correctly.	Self-corrects
3: Does all three tasks correctly.	Confident
Other observations	
<u>ITEM 2:</u>	
Show student a pile of 13 counters. Do not tell student how many counters in the pile. Provide	

student with 20 counters.

- Ask student to make a pile that has more counters than the one you made.
- Ask student to make a pile that has fewer counters than the one you made.
- Ask student to make a pile that has as many counters as the one you made.

0: Cannot do any of the tasks correctly.

1: Does one task correctly.

2: Does two tasks correctly.

3: Does all three tasks correctly.

Other observations

 Hesitant
Self-corrects
Confident

<u>ITEM 3:</u>		
Tell student the following story.		
Mary came home from the store with 13 candies. Her brother Gary came home with 15 candies. Who came home with more candies?		
• Ask student to draw a picture for Mary's and for Gary's candies.		
<ul> <li>Ask student to tell who has more candies.</li> </ul>		
• Ask student to explain his/he answer.		
0: Does not attempt any of the tasks or only draws a picture for		
Mary or Gary (but not both)	Hesitant	
1: Draws a picture showing correct/incorrect amounts for Mary	Self-corrects	
and Gary.	Confident	
2: Draws a correct picture and provides correct answer (Gary has		
more)		
3: Explains correct answer on basis of 1-to-1 matching or on basis		
that 15 comes after 13.		
Other observations		

## Assessment for 1.N.6 (Estimating strategies)

<u>ITEM 1:</u>		
Provide student with counters. Ask student to count out 2 and place the pile of 2 to one side.		
YOU place 13 counters in a pile by the student (DO NOT tell student how many in the pile and		
make it difficult to count how many by placing counters on top of e	ach other). Ask student to	
estimate how many in the pile by thinking about the pile of 2 the stu	udent made. [Student is NOT	
allowed to touch the pile you made.] Ask student to explain his/her thinking.		
0: Does not attempt to estimate.		
1: Makes estimate that is less than 9 or more than 17.	Hesitant	
2: Makes estimate between 10 and 16.	Self-corrects	
3: Makes estimate between 10 and 16 and explains on	Confident	
basis of using groups of 2.		
Other observations	-	

<u>ITEM 2:</u> Provide student with counters. Ask student to count out 11 and place the pile of 11 to one side. YOU place 40 counters in a pile by the student (DO NOT tell student how many in the pile and make it difficult to count how many by placing counters on top of each other). Ask student to estimate how many in the pile. [Student is NOT allowed to touch the pile you made.] Ask student to explain his/her thinking.	
0: Does not attempt to estimate.         1: Makes estimate that is less than 30 or more than 50.         2: Makes estimate between 30 and 50.         3: Makes estimate between 30 and 50 and explains on basis of using groups of 11.	Hesitant Self-corrects Confident
Other observations	

## Assessment for 1.N.7 (partitioning into equal parts)

ITEM 1:		
• Provide student with 6 counters. Ask student to make equal piles and tell you how many		
counters in each pile.		
• Provide student with 9 counters. Ask student to make equal piles and tell you how many		
counters in each pile.		
<ul> <li>Provide student with 15 counters. Ask student to make equal piles and tell you how many</li> </ul>		
counters in each pile.		
0: Cannot do any of the tasks correctly.		
1: Does one task correctly.	Hesitant	
2: Does two tasks correctly.	Self-corrects	
3: Does all three tasks correctly.	Confident	
Other observations		

<u>ITEM 2:</u>	
Put 10 counters on the table but do not tell student how many counters on table. YOU make two	
piles with 5 counters in each pile. Draw a dot diagram of the result (2 piles of 5). Show student	
the dot diagram. Push the counters back together again. Now YOU make five piles with 2	
counters in each pile. Draw a dot diagram of the result (5 piles of 2). Show student the dot	
diagram.	
<ul> <li>Ask student if the diagrams have the same number of dots showing</li> </ul>	ıg.
0: Student counts the dots in each diagram and says 'no'.	Hesitant
1: Student counts the dots in each diagram and says 'yes'.	Self-corrects
2: Student says 'yes' without counting the dots in each diagram.	Confident
Other observations	

<u>ITEM 3:</u>	
Provide student with 8 counters.	
• Ask student to make equal piles and tell you how many counters in each pile.	
• Ask student to make equal piles in a different way and tell you how many counters in	
each pile.	
Provide student with 16 counters.	
Ask student to make equal piles and tell you how many counters in each pile	
Ask student to make equal piles in a different way and tell you how many counters in	
each nile	
0: Cannot do any of the tasks correctly	
1: Does one task correctly	Hesitant
2: Does two tasks correctly	Self-corrects
3: Does three tasks correctly	Confident
4: Does all four tasks correctly	
Other observations	
Other observations	

<u>ITEM 4:</u>		
Provide students with 7 counters.		
<ul> <li>Ask students to make equal piles so that there is one counter left of</li> </ul>	over.	
Provide students with 11 counters.		
• Ask students to make equal piles so that there is one counter left over.		
Provide students with 11 counters.		
• Ask students to make equal piles so that there are two counters left over.		
0: Cannot do any of the tasks correctly.		
1: Does one task correctly.	Hesitant	
2: Does two tasks correctly.	Self-corrects	
3: Does all three tasks correctly	Confident	
Other observations		

## Assessment for 1.N.8 (one or two more/less)

<u>ITEM 1:</u>	
• Show student a ten frame representing 7 (see diagram). Ask stu	dent to
show one more on the ten frame.	
• Show student a ten frame representing 9. Ask student to show o	ne less
on the ten frame.	
• Show student a ten frame representing 17. Ask student to show	one more on the ten frame.
• Show student a ten frame representing 15. Ask student to show	one less on the ten frame.
0: Cannot do any of the tasks correctly.	
1: Does one task correctly.	Hesitant
2: Does two tasks correctly.	Self-corrects
3: Does three tasks correctly.	Confident
4: Does all four tasks correctly.	
Other observations	L
l	
ITEM 2:	
• Show student a ten frame representing 6 Ask student to show to	wo more on the ten frame
• Show student a ten frame representing 10 Ask student to show	two less on the ten frame
<ul> <li>Show student a ten frame representing 14. Ask student to show</li> </ul>	two more on the ten frame
<ul> <li>Show student a ten frame representing 14. Ask student to show two hore on the ten frame.</li> <li>Show student a ten frame representing 10. Ask student to show two loss on the ten frame.</li> </ul>	
0: Cannot do any of the tasks correctly	two less on the ten frame.
1: Does one task correctly.	Hesitant
2: Does two tasks correctly.	Self corrects
2: Does two tasks concerny.	Sch-confects
5. Does three tasks concerny.	
4. Does all four tasks confectly.	
Other observations	
ITEM 2.	
<u>A sk student to say number that is two more than 12</u>	
• Ask student to say number that is two more than 15.	
• Ask student to say number that is one less than 18.	
• Ask student to say number that is two more than 18.	
Ask student to say number that is one less than 14.	
U: Cannot do any of the tasks correctly.	TT. 14 4
1: Does one task correctly.	Hesitant
2: Does two tasks correctly.	Self-corrects
3: Does three tasks correctly.	Confident
4: Does all four tasks correctly.	
DEDUCT .5 if student counts from one to determine the answer.	
Other observations	

## Assessment for 1.N.9 (meaning of addition)

<u>ITEM 1:</u>		
Have 4 counters under a red card and 3 counters under a blue card on the table. Tell student 4		
counters are hiding under the red card and 3 counters are hiding under the blue card.		
Ask student how many counters are hiding altogether.		
0: Does not attempt to answer.		
1: Must count all the counters to obtain answer.	Hesitant	
2: Obtains answer by using fingers.	Self-corrects	
3: Obtains answer without using concrete materials. Confident		
Other observations		

<u>ITEM 2:</u>		
Have 2 counters under a red card and 7 counters under a blue card on the table. Tell student 2		
counters are hiding under the red card and 7 counters are hiding under the blue card.		
Ask student how many counters are hiding altogether.		
0: Does not attempt to answer.		
1: Must count all the counters to obtain answer.	Hesitant	
2: Obtains answer by using fingers.	Self-corrects	
3: Obtains answer without using concrete materials.	Confident	
Other observations		

<u>ITEM 3:</u>		
Tell student the following story problem.		
Teddy likes gumdrons. He has 5 gumdrons in his pocket. His favourite person gives		
Teddy 3 more gumdrops. How many gumdrops does Teddy	have now?	
Ask student to say/write number sentence that tells about the story problem		
	[5+3=8]	
0: Does not attempt to answer.		
1: Provides subtraction number sentence.	Hesitant	
2: Provides incorrect addition number sentence.	Self-corrects	
3: Provides correct addition number sentence.	Confident	
Other observations	· · · · · · · · · · · · · · · · · · ·	

<u>ITEM 4:</u> Show student the addition number sentence: $2 + 6 = 8$ . Ask student to make up a story problem for the number sentence.	
0: Does not attempt to answer.         1: Provides non-addition story problem.         2: Provides incorrect addition story problem.         3: Provides correct addition story problem.	Hesitant Self-corrects Confident
Other observations	

<u>ITEM 5:</u>	
Provide student with 10 counters.	
<ul> <li>Ask student to make up an adding story problem.</li> </ul>	
• Ask student to write the number sentence for his/her story prob	lem.
• Ask student to use the counters to show the story problem.	
0: Does not attempt to answer.	
1: Does one task correctly.	Hesitant
2: Does two tasks correctly.	Self-corrects
3: Does all three tasks correctly.	Confident
Other observations	

## Assessment for 1.N.9 (meaning of subtraction)

<u>ITEM 1:</u>		
Have 5 counters under a red card. Tell student 5 counters are hiding under the red card. ~Remove		
2 counters (show student).		
Ask student how many counters are still hiding under the red card.		
0: Does not attempt to answer.		
1: Must count all the counters to obtain answer.	Hesitant	
2: Obtains answer by using fingers.	Self-corrects	
3: Obtains answer without using concrete materials.	Confident	
Other observations		

<u>ITEM 2:</u>	
Have 10 counters under a red card. Tell student 10 counters are hiding under the red card.	
Remove 6 counters (show student).	
Ask student how many counters are still hiding under the red card.	
0: Does not attempt to answer.	
1: Must count all the counters to obtain answer.	Hesitant
2: Obtains answer by using fingers.	Self-corrects
3: Obtains answer without using concrete materials.	Confident
Other observations	

<u>ITEM 3:</u>	
Tell student the following story problem.	
Teddy likes gumdrops. He has 9 gumdrops in his pocket. Te	ddy eats 4 of his gumdrops
gumdrops. How many gumdrops does Teddy have now in hi	s pocket?
Ask student to say/write number sentence that tells about the story	problem
	[9 - 4 = 5]
0: Does not attempt to answer.	
1: Provides addition number sentence.	Hesitant
2: Provides incorrect subtraction number sentence.	Self-corrects
3: Provides correct subtraction number sentence.	Confident
Other observations	•

<u>ITEM 4:</u>	
Show student the subtraction number sentence: $8 - 5 = 3$ .	
Ask student to make up a story problem for the number sentence.	
0: Does not attempt to answer.	
1: Provides non-subtraction story problem.	Hesitant
2: Provides incorrect subtraction story problem.	Self-corrects
3: Provides correct subtraction story problem.	Confident
Other observations	

<u>ITEM 5:</u>		
Provide student with 10 counters.		
<ul> <li>Ask student to make up a subtraction story problem.</li> </ul>		
<ul> <li>Ask student to write the number sentence for his/her story p</li> </ul>	roblem.	
• Ask student to use the counters to show the story problem.		
0: Does not attempt to answer.		
1: Does one task correctly.	Hesitant	
2: Does two tasks correctly.	Self-corrects	
3: Does all three tasks correctly.	Confident	
Other observations		

## Assessment for 1.N.10 (mental math strategies)

ITEM	1.	
	••	

Ask student to give answer to 3 + 4. DO NOT provide counters unless student requests them.	
0: Does not attempt to answer or uses counters/fingers but DOES	
NOT put together when using them.	Hesitant
1: Uses counters by putting together, obtains incorrect answer.	Self-corrects
2 Uses counters by putting together, obtains correct answer.	Confident
3: Uses mental strategy (counting on from 3 or 4, making 10,	
doubles). NO FINGERS.	
Other observations	

<u>ITEM 2:</u>	
Ask student to give answer to $2 + 6$ . DO NOT provide counters unless student	nt requests them.
0: Does not attempt to answer or uses counters/fingers but DOES	
NOT put together when using them.	Hesitant
1: Uses counters by putting together, obtains incorrect answer.	Self-corrects
2 Uses counters by putting together, obtains correct answer.	Confident
3: Uses mental strategy (counting on from 2,).	
Other observations	

<u>ITEM 3:</u>	
Ask student to give answer to 5 - 3. DO NOT provide counters unless student requests them.	
0: Does not attempt to answer or uses counters/fingers but DOES	
NOT take way when using them.	Hesitant
1: Uses counters by taking away, obtains incorrect answer.	Self-corrects
2 Uses counters by taking away, obtains correct answer.	Confident
3: Uses mental strategy.	
Other observations	

ITEM 4:	
Ask student to give answer to 9 - 6. DO NOT provide counters unless studen	t requests them.
0: Does not attempt to answer or uses counters/fingers but DOES	TT '4 4
NOT take way when using them.	Hesitant
1: Uses counters by taking away, obtains incorrect answer.	Self-corrects
2 Uses counters by taking away, obtains correct answer.	Confident
<u>3:</u> Uses mental strategy.	
Other observations	
<u>ITEM 5:</u>	
Show student addition number sentence: $3 + 5 = 8$ .	
Ask student to write/tell subtraction number sentence for the addition numbe	r sentence.
[8 -	-5 = 3  OR  8 - 3 = 5
0: Does not attempt to answer OR provides a different addition	
number sentence.	Hesitant
1: Provides a subtraction number sentence that has little or no	Self-corrects
connection to the addition one.	Confident
2: Provides an incorrect subtraction number sentence where two of	
the three numbers are correct.	
3: Provides a correct subtraction number sentence.	
Other observations	
ITEM 6:	
Show student subtraction number sentence: $9 - 2 = 7$ .	
Ask student to write/tell addition number sentence for the subtraction numbe	r sentence.
[2+	$-7 = 9 \text{ OR } 7 + 2 = 9^{-7}$
0: Does not attempt to answer OR provides a different subtraction	
number sentence.	Hesitant
1: Provides an addition number sentence that has little or no	Self-corrects
connection to the subtraction one.	Confident
2: Provides an incorrect addition number sentence where two of the	
three numbers are correct.	
3: Provides a correct addition number sentence.	
Other observations	