

Class 4 Progress Sample

Name of the child : _____

*This test is designed to identify the progress of children in some sample concepts.

For each competency questions A and B are of the same difficulty level, and question C is of the higher difficulty level.

Baseline : For each competency we ask question A. We record his / her response in baseline A record.

Endline : We test for these sample competencies again after the six months of Manchadi math lab experience.

For each question do the following :

If the child could not do question A independently or was not liking it at time of baseline, give question B. Record the response in Endline B record. Also give question C which is of a higher difficulty level. Record the response in Endline C record.

If the child could do question A correctly at the time of baseline, give him only question C at the time of endline.

If at the time of baseline, the child is already above the level of endline question, this cannot be captured in this test. We can say that the child is at or above the expected level.)

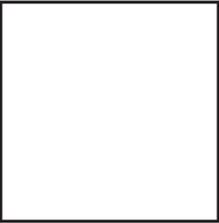
MAKE SURE THAT EVERY CHILD IS FAMILIAR WITH DOMINOES. THEY SHOULD KNOW HOW TO PLAY DOMINOES.

Dominoes used here are of two types. 1) Start to end 2) Loop

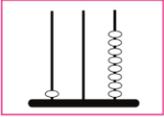
Start to End – The cards are shuffled and given to the child. She puts the card having START. On the right half of this card there is a picture/problem. The child has to find a card having matching picture or solution of that problem. The right half of that card has a next problem. Thus by putting cards the child has to reach upto the card having an END.

LOOP – The child can start with any card and complete the loop.

Dominoes ensures that the child is solving a number of problems based on each concept while playing the game. If he/she makes a mistake, the loop will not get completed. So, there is space for self-correction. Children do not realise that they are being assessed.

Activity /Question No.	Baseline question/Activity (A)	Baseline (A) - Record (You may tick more squares)	Endline question/activity (B)	Endline B record	End line question/activity (C)	Endline (C) Record
About Q. 1	<p>Use 3 tangram pieces to make the given shape</p> 		<p>Use 3 tangram pieces to make the given shape</p> 		<p>Use 4 tangram pieces to make the given shape</p> 	
1	Tangram puzzle card 1 (3 pieces)	<p>Approach</p> <p>Enthusiastic <input type="checkbox"/></p> <p>Engrossed <input type="checkbox"/></p> <p>Comfortable <input type="checkbox"/></p> <p>Little awkward <input type="checkbox"/></p> <p>Didn't want to do <input type="checkbox"/></p> <p>Outcome</p>	Tangram puzzle card 2 (3 pieces)	<p>Approach</p> <p>Enthusiastic <input type="checkbox"/></p> <p>Engrossed <input type="checkbox"/></p> <p>Comfortable <input type="checkbox"/></p> <p>Little awkward <input type="checkbox"/></p> <p>Didn't want to do <input type="checkbox"/></p> <p>Outcome</p>	Tangram puzzle card 3 (4 pieces)	<p>Approach</p> <p>Enthusiastic <input type="checkbox"/></p> <p>Engrossed <input type="checkbox"/></p> <p>Comfortable <input type="checkbox"/></p> <p>Little awkward <input type="checkbox"/></p> <p>Didn't want to do <input type="checkbox"/></p> <p>Outcome</p>

		Could do it <input type="checkbox"/> Could not do it <input type="checkbox"/>		Could do it <input type="checkbox"/> Could not do it <input type="checkbox"/>		Could do it <input type="checkbox"/> Could not do it <input type="checkbox"/>
About Q. 2						
2	Play dominoes which is a mix of two digit and three digit numbers (currency pictures and numbers)	Could complete the loop <input type="checkbox"/> Could not complete the loop <input type="checkbox"/>			Play dominoes which is a mix of two digit and three digit numbers (currency pictures and numbers)	Could complete the loop <input type="checkbox"/> Could not complete the loop <input type="checkbox"/>
About Q. 3	Translation – Alphanumeric to currency					
3	Read the number on your card (325) and give those many rupees using hundred, ten and one rupee notes	Could read the number <input type="checkbox"/> Could not read the number <input type="checkbox"/> Could give the amount <input type="checkbox"/> Could not give the amount <input type="checkbox"/>	Read the number on your card (325) and give those many rupees using hundred, ten and one rupee notes	Could read the number <input type="checkbox"/> Could not read the number <input type="checkbox"/> Could give the amount <input type="checkbox"/> Could not give the amount <input type="checkbox"/>	Read the number on your card (406) and give those many rupees using hundred, ten and one rupee notes	Could read the number <input type="checkbox"/> Could not read the number <input type="checkbox"/> Could give the amount <input type="checkbox"/> Could not give the amount <input type="checkbox"/>

About Q. 4	Translation currency to name and numerals					
4	Animator gives some rupees (675) using 100, 10 and 1 rupee notes. Children count and say the number and write it.	Could say the number <input type="checkbox"/> Could not say the number <input type="checkbox"/> Could write the number <input type="checkbox"/> Could not write the number <input type="checkbox"/>	Animator gives some rupees (708) using 100, 10 and 1 rupee notes. Children count and say the number and write it.	Could say the number <input type="checkbox"/> Could not say the number <input type="checkbox"/> Could write the number <input type="checkbox"/> Could not write the number <input type="checkbox"/>	Animator gives some rupees (599) using 100, 10 and 1 rupee notes. Children count and say the number and write it.	Could say the number <input type="checkbox"/> Could not say the number <input type="checkbox"/> Could write the number <input type="checkbox"/> Could not write the number <input type="checkbox"/>
About Q. 5	<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>1 Hundred 8 Ones</p> </div> </div> <div style="display: flex; align-items: center; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> $100 + 0 + 8$ </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>1 Hundred 0 Tens 8 Ones</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center; font-size: 2em;"> 108 </div> </div> <p data-bbox="882 676 1980 948">Understanding three digit numbers in various representation and all forms – 1) Abacus, 2) Currency, 3) Mixed loose forms, 4) Hundreds, Tens and ones 5) Tight form 6) Numeral. It's in the game form. Therefore children do 14 numbers in all these forms to complete the game. These numbers have all types (e g single digit, two digit, three digit having zeros at various places)</p>					
5	Play the card game of three-digit numbers in all forms (e.g. 423, 400+20+3, 4 hundreds 2 tens 3 ones, a picture of currency, a picture	Could do it without help <input type="checkbox"/> Could do it with help <input type="checkbox"/> Could not do it <input type="checkbox"/>	Play the card game of three digit numbers in all forms (e.g. 423, 400+20+3, 4 hundreds 2 tens 3 ones, a picture of currency, a picture	Could do it without help <input type="checkbox"/> Could do it with help <input type="checkbox"/> Could not do it <input type="checkbox"/>	Play the card game of three digit numbers in all forms (e.g. 423, 400+20+3, 4 hundreds 2 tens 3 ones, a picture of currency, a picture	Could do it without help <input type="checkbox"/> Could do it with help <input type="checkbox"/> Could not do it <input type="checkbox"/>

	of abacus) for 3 numbers		of abacus) for 3 numbers		of abacus) for 3 numbers	
About Q. 6	Doing three digit addition mentally. The numbers are chosen such that if children have good number sense, they will be able to do it.					
6	Read the addition on your card (200 + 103). What is the answer? Do it using currency notes if necessary.	Could answer mentally <input type="checkbox"/> Could answer after doing it using currency Could not answer <input type="checkbox"/>	Read the addition on your card (300 + 206). What is the answer? Do it using currency notes if necessary.	Could answer mentally <input type="checkbox"/> Could answer after doing it using currency Could not answer <input type="checkbox"/>	Read the addition on your card (123 + 123). What is the answer? Do it using currency notes if necessary.	Could answer mentally <input type="checkbox"/> Could answer after doing it using currency Could not answer <input type="checkbox"/>
About Q. 7	Doing three digit subtraction mentally. The numbers are chosen such that if children have good number sense, they will be able to do it.					
7	Read the subtraction on your card (300 – 280). What is the answer? Do it using currency notes if necessary.	Could answer mentally <input type="checkbox"/> Could answer after doing it using currency Could not answer <input type="checkbox"/>	Read the subtraction on your card (300 – 280). What is the answer? Do it using currency notes if necessary.	Could answer mentally <input type="checkbox"/> Could answer after doing it using currency Could not answer <input type="checkbox"/>	Read the subtraction on your card (250 – 190). What is the answer? Do it using currency notes if necessary.	Could answer mentally <input type="checkbox"/> Could answer after doing it using currency Could not answer <input type="checkbox"/>
About Q. 8	Doing single digit multiplication mentally and representing it using square tiles - Understanding multiplication as rectangles					
8	What is six times two? Show using square tiles.	Could answer mentally <input type="checkbox"/>	What is four times five? Show using square tiles.	Could answer mentally <input type="checkbox"/>	What is six times eight? Show using square tiles.	Could answer mentally <input type="checkbox"/>

		Could show it using square tiles <input type="checkbox"/> Could not show it using tiles <input type="checkbox"/>		Could show it using square tiles <input type="checkbox"/> Could not show it using tiles <input type="checkbox"/>		Could show it using square tiles <input type="checkbox"/> Could not show it using tiles <input type="checkbox"/>
About Q. 9	Completing 100- Which number added to a given number makes 100				Completing 1000 – Which number added to a given number makes 1000	
9	Make 100 game – I say a number, you say a number to make 100	Could do it without counting <input type="checkbox"/> Could do it by counting <input type="checkbox"/> Could not do it <input type="checkbox"/>	Make 100 game – I say a number, you say a number to make 100	Could do it without counting <input type="checkbox"/> Could do it by counting <input type="checkbox"/> Could not do it <input type="checkbox"/>	Make 1000 game – I say a number, you say a number to make 1000	Could do it without counting <input type="checkbox"/> Could do it by counting <input type="checkbox"/> Could not do it <input type="checkbox"/>
About Q. 10	Tight form and various loose forms of numbers 35, 100, 1000					
10	Make number 35 in all possible forms using currency notes of 10 and 1	Could do it without help <input type="checkbox"/> Could do it with help <input type="checkbox"/> Could not do it. <input type="checkbox"/>	Make number 100 in 3 different forms using currency notes of 100, 10 and 1	Could do it without help <input type="checkbox"/> Could do it with help <input type="checkbox"/> Could not do it. <input type="checkbox"/>	Make number 1000 in all possible forms using currency notes of 1000, 100, 10 and 1	Could do it without help <input type="checkbox"/> Could do it with help <input type="checkbox"/> Could not do it. <input type="checkbox"/>
About Q 11	Single digit multiplication in real life context					
11	There are 5 children in each group. There are 4 such groups. How	Could answer without help <input type="checkbox"/>	There are 20 children in each class. There are 3	Could answer without help <input type="checkbox"/>	One notebook costs 15 rupees. What will be the	Could answer without help <input type="checkbox"/>

	many children in all?	Could answer with help <input type="checkbox"/> Could not answer <input type="checkbox"/>	classes. How many children in all?	Could answer with help <input type="checkbox"/> Could not answer <input type="checkbox"/>	cost of 4 notebooks?	Could answer with help <input type="checkbox"/> Could not answer <input type="checkbox"/>																			
About Q 12	Division in real life context																								
12	Divide 20 rupees equally among two children. How much does each get ?	Could answer without help <input type="checkbox"/> Could answer with help <input type="checkbox"/> Could not answer <input type="checkbox"/>	Divide 20 rupees equally among four children. How much does each get ?	Could answer without help <input type="checkbox"/> Could answer with help <input type="checkbox"/> Could not answer <input type="checkbox"/>	Divide 30 rupees equally among six children. How much does each get ?	Could answer without help <input type="checkbox"/> Could answer with help <input type="checkbox"/> Could not answer <input type="checkbox"/>																			
About Q 13	<table border="0"> <tr> <td>63</td> <td>3 x 2</td> <td>6</td> <td>5 x 4</td> <td colspan="3" rowspan="4">Being able to do 8 multiplication facts</td> </tr> <tr> <td>20</td> <td>7 x 2</td> <td>14</td> <td>9 x 9</td> </tr> <tr> <td>81</td> <td>8 x 7</td> <td>56</td> <td>4 x 2</td> </tr> <tr> <td>8</td> <td>5 x 9</td> <td>45</td> <td>9 x 7</td> </tr> </table>						63	3 x 2	6	5 x 4	Being able to do 8 multiplication facts			20	7 x 2	14	9 x 9	81	8 x 7	56	4 x 2	8	5 x 9	45	9 x 7
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13	Play multiplication Dominoes	Could complete the loop <input type="checkbox"/> Could not complete the loop <input type="checkbox"/>	Play multiplication Dominoes	Could complete the loop <input type="checkbox"/> Could not complete the loop <input type="checkbox"/>	Play multiplication Dominoes	Could complete the loop <input type="checkbox"/> Could not complete the loop <input type="checkbox"/>																			

About Q 13	5 12 ÷ 3 4 18 ÷ 9	Being able to do 8 division facts				
	2 42 ÷ 6 7 45 ÷ 5					
	9 72 ÷ 9 8 36 ÷ 6					
	6 15 ÷ 5 3 40 ÷ 8					
14	Play division dominoes	Could complete the loop <input type="checkbox"/> Could not complete the loop <input type="checkbox"/>	Play division dominoes	Could complete the loop <input type="checkbox"/> Could not complete the loop <input type="checkbox"/>	Play division dominoes	Could complete the loop <input type="checkbox"/> Could not complete the loop <input type="checkbox"/>

Special note at the time of baseline :

Special note at the time of endline :