Connecting Math Concepts
Independent Work Percentages

     Independent daily work is a critical measure of student mastery. A record needs to be maintained of individual and group performance. The attached charts give the percentages for the independent work that students do in the Connecting Math Concepts programs. The charts list the lesson number, the total number of items possible for each lesson and the percentage correct. The charts can be used for grading and to provide an accurate record of student performance.

     Students need to be at **85 percent mastery or above** on their independent work for each lesson. Students who fall below 85 percent for three consecutive lessons have a problem and a remedy is needed. A remedy is also needed for students who frequently fall below 85 percent. If one fifth or more of the students in a group fall below 85 percent on a specific lesson, the entire group should repeat the lesson or firm-up procedures should be done with the group.

     Students need to count errors accurately to calculate the correct percentage. The basic rule in counting errors is that numbered items count as one response. If a numbered item has several answers the item only counts as one response. For example, an item might tell the students to write the numbers for counting by 5 in the boxes (see below). This item counts as one response.

Part 3 Write the numbers for counting by 5.

5	

     There are 9 correct answers. However, Part 3 only counts as one.

     Remember, keep a daily record of student performance on independent work. Student mastery is 85%. Take a corrective action when 20% of the group falls below 85% mastery or when individuals score below 85% for 3 consecutive days.

     If you have any questions, please email Gary Davis at gdavis@nifdi.org or call (877) 485-1973.

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
13 Possible	**13 Possible**	**20 Possible**	**16 Possible**	**15 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 92%	-1 = 92%	-1 = 95%	-1 = 93%	-1 = 93%
-2 = 84%	-2 = 84%	-2 = 90%	-2 = 87%	-2 = 86%
-3 = 76%	-3 = 76%	-3 = 85%	-3 = 81%	-3 = 80%
-4 = 69%	-4 = 69%	-4 = 80%	-4 = 75%	-4 = 73%
-5 = 61%	-5 = 61%	-5 = 75%	-5 = 68%	-5 = 66%
-6 = 53%	-6 = 53%	-6 = 70%	-6 = 62%	-6 = 60%
-7 = 46%	-7 = 46%	-7 = 65%	-7 = 56%	-7 = 53%
Lesson 6	**Lesson 7**	**Lesson 8**	**Lesson 9**	**Lesson 10**
20 Possible	**17 Possible**	**18 Possible**	**20 Possible**	**N/A**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 95%	-1 = 94%	-1 = 94%	-1 = 95%	
-2 = 90%	-2 = 88%	-2 = 88%	-2 = 90%	
-3 = 85%	-3 = 82%	-3 = 83%	-3 = 85%	
-4 = 80%	-4 = 76%	-4 = 77%	-4 = 80%	
-5 = 75%	-5 = 70%	-5 = 72%	-5 = 75%	
-6 = 70%	-6 = 64%	-6 = 66%	-6 = 70%	
-7 = 65%	-7 = 58%	-7 = 61%	-7 = 65%	
Lesson 11	**Lesson 12**	**Lesson 13**	**Lesson 14**	**Lesson 15**
18 Possible	**14 Possible**	**17 Possible**	**15 Possible**	**24 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 94%	-1 = 92%	-1 = 94%	-1 = 93%	-1 = 95%
-2 = 88%	-2 = 85%	-2 = 88%	-2 = 86%	-2 = 91%
-3 = 83%	-3 = 78%	-3 = 82%	-3 = 80%	-3 = 87%
-4 = 77%	-4 = 71%	-4 = 76%	-4 = 73%	-4 = 83%
-5 = 72%	-5 = 64%	-5 = 70%	-5 = 66%	-5 = 79%
-6 = 66%	-6 = 57%	-6 = 64%	-6 = 60%	-6 = 75%
-7 = 61%	-7 = 50%	-7 = 58%	-7 = 53%	-7 = 70%
Lesson 16	**Lesson 17**	**Lesson 18**	**Lesson 19**	**Lesson 20**
17 Possible	**19 Possible**	**21 Possible**	**24 Possible**	**N/A**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 94%	-1 = 97%	-1 = 95%	
-2 = 88%	-2 = 89%	-2 = 94%	-2 = 91%	
-3 = 82%	-3 = 84%	-3 = 91%	-3 = 87%	
-4 = 76%	-4 = 78%	-4 = 89%	-4 = 83%	
-5 = 70%	-5 = 73%	-5 = 86%	-5 = 79%	
-6 = 64%	-6 = 68%	-6 = 83%	-6 = 75%	
-7 = 58%	-7 = 63%	-7 = 80%	-7 = 70%	

Connecting Math Concepts Level F 2003

Independent Work % Chart

(based on total number of textbook and workbook items)

Lesson 21 17 Possible	Lesson 22 27 Possible	Lesson 23 14 Possible	Lesson 24 18 Possible	Lesson 25 19 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 94%	-1 = 96%	-1 = 92%	-1 = 94%	-1 = 94%
-2 = 88%	-2 = 92%	-2 = 85%	-2 = 88%	-2 = 89%
-3 = 82%	-3 = 88%	-3 = 78%	-3 = 83%	-3 = 84%
-4 = 76%	-4 = 85%	-4 = 71%	-4 = 77%	-4 = 78%
-5 = 70%	-5 = 81%	-5 = 64%	-5 = 72%	-5 = 73%
-6 = 64%	-6 = 77%	-6 = 57%	-6 = 66%	-6 = 68%
-7 = 58%	-7 = 74%	-7 = 50%	-7 = 61%	-7 = 63%

Lesson 26 21 Possible	Lesson 27 20 Possible	Lesson 28 12 Possible	Lesson 29 15 Possible	Lesson 30 N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 97%	-1 = 95%	-1 = 91%	-1 = 93%	
-2 = 94%	-2 = 90%	-2 = 83%	-2 = 86%	
-3 = 91%	-3 = 85%	-3 = 75%	-3 = 80%	
-4 = 89%	-4 = 80%	-4 = 66%	-4 = 73%	
-5 = 86%	-5 = 75%	-5 = 58%	-5 = 66%	
-6 = 83%	-6 = 70%	-6 = 50%	-6 = 60%	
-7 = 80%	-7 = 65%	-7 = 41%	-7 = 53%	

Lesson 31 24 Possible	Lesson 32 28 Possible	Lesson 33 22 Possible	Lesson 34 16 Possible	Lesson 35 21 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 96%	-1 = 95%	-1 = 93%	-1 = 97%
-2 = 91%	-2 = 92%	-2 = 90%	-2 = 87%	-2 = 94%
-3 = 87%	-3 = 89%	-3 = 86%	-3 = 81%	-3 = 91%
-4 = 83%	-4 = 85%	-4 = 81%	-4 = 75%	-4 = 89%
-5 = 79%	-5 = 82%	-5 = 77%	-5 = 68%	-5 = 86%
-6 = 75%	-6 = 78%	-6 = 72%	-6 = 62%	-6 = 83%
-7 = 70%	-7 = 75%	-7 = 68%	-7 = 56%	-7 = 80%

Lesson 36 17 Possible	Lesson 37 21 Possible	Lesson 38 20 Possible	Lesson 39 19 Possible	Lesson 40 N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 97%	-1 = 95%	-1 = 94%	
-2 = 88%	-2 = 94%	-2 = 90%	-2 = 89%	
-3 = 82%	-3 = 91%	-3 = 85%	-3 = 84%	
-4 = 76%	-4 = 89%	-4 = 80%	-4 = 78%	
-5 = 70%	-5 = 86%	-5 = 75%	-5 = 73%	
-6 = 64%	-6 = 83%	-6 = 70%	-6 = 68%	
-7 = 58%	-7 = 80%	-7 = 65%	-7 = 63%	

Lesson 41	Lesson 42	Lesson 43	Lesson 44	Lesson 45
20 Possible	18 Possible	25 Possible	23 Possible	25 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 94%	-1 = 98%	-1 = 96%	-1 = 98%
-2 = 90%	-2 = 88%	-2 = 95%	-2 = 91%	-2 = 95%
-3 = 85%	-3 = 83%	-3 = 93%	-3 = 87%	-3 = 93%
-4 = 80%	-4 = 77%	-4 = 90%	-4 = 83%	-4 = 90%
-5 = 75%	-5 = 72%	-5 = 88%	-5 = 78%	-5 = 88%
-6 = 70%	-6 = 66%	-6 = 85%	-6 = 74%	-6 = 85%
-7 = 65%	-7 = 61%	-7 = 83%	-7 = 70%	-7 = 83%

Lesson 46	Lesson 47	Lesson 48	Lesson 49	Lesson 50
20 Possible	24 Possible	22 Possible	22 Possible	N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 95%	-1 = 95%	-1 = 95%	-1 = 95%	
-2 = 90%	-2 = 91%	-2 = 90%	-2 = 90%	
-3 = 85%	-3 = 87%	-3 = 86%	-3 = 86%	
-4 = 80%	-4 = 83%	-4 = 81%	-4 = 81%	
-5 = 75%	-5 = 79%	-5 = 77%	-5 = 77%	
-6 = 70%	-6 = 75%	-6 = 72%	-6 = 72%	
-7 = 65%	-7 = 70%	-7 = 68%	-7 = 68%	

Lesson 51	Lesson 52	Lesson 53	Lesson 54	Lesson 55
20 Possible	18 Possible	22 Possible	10 Possible	21 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 94%	-1 = 95%	-1 = 95%	-1 = 97%
-2 = 90%	-2 = 88%	-2 = 90%	-2 = 91%	-2 = 94%
-3 = 85%	-3 = 83%	-3 = 86%	-3 = 86%	-3 = 91%
-4 = 80%	-4 = 77%	-4 = 81%	-4 = 82%	-4 = 89%
-5 = 75%	-5 = 72%	-5 = 77%	-5 = 78%	-5 = 86%
-6 = 70%	-6 = 66%	-6 = 72%	-6 = 73%	-6 = 83%
-7 = 65%	-7 = 61%	-7 = 68%	-7 = 69%	-7 = 80%

Lesson 56	Lesson 57	Lesson 58	Lesson 59	Lesson 60
23 Possible	32 Possible	17 Possible	24 Possible	N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 96%	-1 = 96%	-1 = 94%	-1 = 95%	
-2 = 91%	-2 = 93%	-2 = 88%	-2 = 91%	
-3 = 87%	-3 = 90%	-3 = 82%	-3 = 87%	
-4 = 83%	-4 = 87%	-4 = 76%	-4 = 83%	
-5 = 78%	-5 = 84%	-5 = 70%	-5 = 79%	
-6 = 74%	-6 = 81%	-6 = 64%	-6 = 75%	
-7 = 70%	-7 = 78%	-7 = 58%	-7 = 70%	

Lesson 61 18 Possible	Lesson 62 16 Possible	Lesson 63 22 Possible	Lesson 64 15 Possible	Lesson 65 20 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 94%	-1 = 93%	-1 = 95%	-1 = 93%	-1 = 95%
-2 = 88%	-2 = 87%	-2 = 90%	-2 = 86%	-2 = 90%
-3 = 83%	-3 = 81%	-3 = 86%	-3 = 80%	-3 = 85%
-4 = 77%	-4 = 75%	-4 = 81%	-4 = 73%	-4 = 80%
-5 = 72%	-5 = 68%	-5 = 77%	-5 = 66%	-5 = 75%
-6 = 66%	-6 = 62%	-6 = 72%	-6 = 60%	-6 = 70%
-7 = 61%	-7 = 56%	-7 = 68%	-7 = 53%	-7 = 65%

Lesson 66 14 Possible	Lesson 67 12 Possible	Lesson 68 18 Possible	Lesson 69 17 Possible	Lesson 70 N/A Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 92%	-1 = 91%	-1 = 94%	-1 = 94%	
-2 = 85%	-2 = 83%	-2 = 88%	-2 = 88%	
-3 = 78%	-3 = 75%	-3 = 83%	-3 = 82%	
-4 = 71%	-4 = 66%	-4 = 77%	-4 = 76%	
-5 = 64%	-5 = 58%	-5 = 72%	-5 = 70%	
-6 = 57%	-6 = 50%	-6 = 66%	-6 = 64%	
-7 = 50%	-7 = 41%	-7 = 61%	-7 = 58%	

Lesson 71 20 Possible	Lesson 72 18 Possible	Lesson 73 18 Possible	Lesson 74 23 Possible	Lesson 75 16 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 94%	-1 = 94%	-1 = 96%	-1 = 93%
-2 = 90%	-2 = 88%	-2 = 88%	-2 = 91%	-2 = 87%
-3 = 85%	-3 = 83%	-3 = 83%	-3 = 87%	-3 = 81%
-4 = 80%	-4 = 77%	-4 = 77%	-4 = 83%	-4 = 75%
-5 = 75%	-5 = 72%	-5 = 72%	-5 = 78%	-5 = 68%
-6 = 70%	-6 = 66%	-6 = 66%	-6 = 74%	-6 = 62%
-7 = 65%	-7 = 61%	-7 = 61%	-7 = 70%	-7 = 56%

Lesson 76 24 Possible	Lesson 77 18 Possible	Lesson 78 22 Possible	Lesson 79 22 Possible	Lesson 80 N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 95%	-1 = 94%	-1 = 95%	-1 = 95%	
-2 = 91%	-2 = 88%	-2 = 90%	-2 = 90%	
-3 = 87%	-3 = 83%	-3 = 86%	-3 = 86%	
-4 = 83%	-4 = 77%	-4 = 81%	-4 = 81%	
-5 = 79%	-5 = 72%	-5 = 77%	-5 = 77%	
-6 = 75%	-6 = 66%	-6 = 72%	-6 = 72%	
-7 = 70%	-7 = 61%	-7 = 68%	-7 = 68%	

Lesson 81	Lesson 82	Lesson 83	Lesson 84	Lesson 85
20 Possible	31 Possible	15 Possible	24 Possible	20 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 96%	-1 = 93%	-1 = 95%	-1 = 95%
-2 = 90%	-2 = 93%	-2 = 86%	-2 = 91%	-2 = 90%
-3 = 85%	-3 = 90%	-3 = 80%	-3 = 87%	-3 = 85%
-4 = 80%	-4 = 87%	-4 = 73%	-4 = 83%	-4 = 80%
-5 = 75%	-5 = 83%	-5 = 66%	-5 = 79%	-5 = 75%
-6 = 70%	-6 = 80%	-6 = 60%	-6 = 75%	-6 = 70%
-7 = 65%	-7 = 77%	-7 = 53%	-7 = 70%	-7 = 65%

Lesson 86	Lesson 87	Lesson 88	Lesson 89	Lesson 90
19 Possible	21 Possible	29 Possible	23 Possible	N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 97%	-1 = 96%	-1 = 96%	
-2 = 89%	-2 = 94%	-2 = 93%	-2 = 91%	
-3 = 84%	-3 = 91%	-3 = 89%	-3 = 87%	
-4 = 78%	-4 = 89%	-4 = 86%	-4 = 83%	
-5 = 73%	-5 = 86%	-5 = 82%	-5 = 78%	
-6 = 68%	-6 = 83%	-6 = 79%	-6 = 74%	
-7 = 63%	-7 = 80%	-7 = 75%	-7 = 70%	

Lesson 91	Lesson 92	Lesson 93	Lesson 94	Lesson 95
22 Possible	15 Possible	14 Possible	21 Possible	13 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 93%	-1 = 92%	-1 = 97%	-1 = 92%
-2 = 90%	-2 = 86%	-2 = 85%	-2 = 94%	-2 = 84%
-3 = 86%	-3 = 80%	-3 = 78%	-3 = 91%	-3 = 76%
-4 = 81%	-4 = 73%	-4 = 71%	-4 = 89%	-4 = 69%
-5 = 77%	-5 = 66%	-5 = 64%	-5 = 86%	-5 = 61%
-6 = 72%	-6 = 60%	-6 = 57%	-6 = 83%	-6 = 53%
-7 = 68%	-7 = 53%	-7 = 50%	-7 = 80%	-7 = 46%

Lesson 96	Lesson 97	Lesson 98	Lesson 99	Lesson 100
30 Possible	21 Possible	28 Possible	29 Possible	1 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 97%	-1 = 97%	-1 = 96%	-1 = 96%	
-2 = 93%	-2 = 94%	-2 = 92%	-2 = 93%	
-3 = 90%	-3 = 91%	-3 = 89%	-3 = 89%	
-4 = 87%	-4 = 89%	-4 = 85%	-4 = 86%	
-5 = 83%	-5 = 86%	-5 = 82%	-5 = 82%	
-6 = 80%	-6 = 83%	-6 = 78%	-6 = 79%	
-7 = 77%	-7 = 80%	-7 = 75%	-7 = 75%	

Lesson 101	Lesson 102	Lesson 103	Lesson 104	Lesson 105
25 Possible	**18 Possible**	**24 Possible**	**22 Possible**	**20 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 98%	-1 = 94%	-1 = 95%	-1 = 95%	-1 = 95%
-2 = 95%	-2 = 88%	-2 = 91%	-2 = 90%	-2 = 90%
-3 = 93%	-3 = 83%	-3 = 87%	-3 = 86%	-3 = 85%
-4 = 90%	-4 = 77%	-4 = 83%	-4 = 81%	-4 = 80%
-5 = 88%	-5 = 72%	-5 = 79%	-5 = 77%	-5 = 75%
-6 = 85%	-6 = 66%	-6 = 75%	-6 = 72%	-6 = 70%
-7 = 83%	-7 = 61%	-7 = 70%	-7 = 68%	-7 = 65%

Lesson 106	Lesson 107	Lesson 108	Lesson 109	Lesson 110
21 Possible	**20 Possible**	**19 Possible**	**21 Possible**	**N/A**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 97%	-1 = 95%	-1 = 94%	-1 = 97%	
-2 = 94%	-2 = 90%	-2 = 89%	-2 = 94%	
-3 = 91%	-3 = 85%	-3 = 84%	-3 = 91%	
-4 = 89%	-4 = 80%	-4 = 78%	-4 = 89%	
-5 = 86%	-5 = 75%	-5 = 73%	-5 = 86%	
-6 = 83%	-6 = 70%	-6 = 68%	-6 = 83%	
-7 = 80%	-7 = 65%	-7 = 63%	-7 = 80%	

Lesson 111	Lesson 112	Lesson 113	Lesson 114	Lesson 115
19 Possible	**27 Possible**	**23 Possible**	**13 Possible**	**14 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 94%	-1 = 96%	-1 = 96%	-1 = 92%	-1 = 92%
-2 = 89%	-2 = 92%	-2 = 91%	-2 = 84%	-2 = 85%
-3 = 84%	-3 = 88%	-3 = 87%	-3 = 76%	-3 = 78%
-4 = 78%	-4 = 85%	-4 = 83%	-4 = 69%	-4 = 71%
-5 = 73%	-5 = 81%	-5 = 78%	-5 = 61%	-5 = 64%
-6 = 68%	-6 = 77%	-6 = 74%	-6 = 53%	-6 = 57%
-7 = 63%	-7 = 74%	-7 = 70%	-7 = 46%	-7 = 50%

Lesson 116	Lesson 117	Lesson 118	Lesson 119	Lesson 120
22 Possible	**32 Possible**	**21 Possible**	**23 Possible**	**1 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 96%	-1 = 97%	-1 = 96%	
-2 = 90%	-2 = 93%	-2 = 94%	-2 = 91%	
-3 = 86%	-3 = 90%	-3 = 91%	-3 = 87%	
-4 = 81%	-4 = 87%	-4 = 89%	-4 = 83%	
-5 = 77%	-5 = 84%	-5 = 86%	-5 = 78%	
-6 = 72%	-6 = 81%	-6 = 83%	-6 = 74%	
-7 = 68%	-7 = 78%	-7 = 80%	-7 = 70%	

Lesson 121 34 Possible	Lesson 122 35 Possible	Lesson 123 23 Possible	Lesson 124 19 Possible	Lesson 125 28 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 97%	-1 = 97%	-1 = 96%	-1 = 94%	-1 = 96%
-2 = 94%	-2 = 94%	-2 = 91%	-2 = 89%	-2 = 92%
-3 = 91%	-3 = 91%	-3 = 87%	-3 = 84%	-3 = 89%
-4 = 88%	-4 = 88%	-4 = 83%	-4 = 78%	-4 = 85%
-5 = 85%	-5 = 85%	-5 = 78%	-5 = 73%	-5 = 82%
-6 = 82%	-6 = 82%	-6 = 74%	-6 = 68%	-6 = 78%
-7 = 79%	-7 = 80%	-7 = 70%	-7 = 63%	-7 = 75%