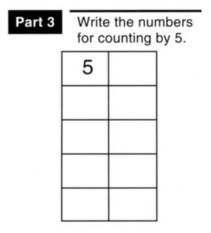# Connecting Math Concepts
Independent Work Percentages

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.

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 4 Possible	Lesson 2 8 Possible	Lesson 3 12 Possible	Lesson 4 12 Possible	Lesson 5 9 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 75%	-1 = 87%	-1 = 91%	-1 = 91%	-1 = 88%
-2 = 50%	-2 = 75%	-2 = 83%	-2 = 83%	-2 = 77%
-3 = 25%	-3 = 62%	-3 = 75%	-3 = 75%	-3 = 66%
	-4 = 50%	-4 = 66%	-4 = 66%	-4 = 55%
	-5 = 37%	-5 = 58%	-5 = 58%	-5 = 44%
	-6 = 25%	-6 = 50%	-6 = 50%	-6 = 33%
	-7 = 12%	-7 = 41%	-7 = 41%	-7 = 22%

Lesson 6 19 Possible	Lesson 7 18 Possible	Lesson 8 25 Possible	Lesson 9 17 Possible	Lesson 10 N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 94%	-1 = 98%	-1 = 94%	
-2 = 89%	-2 = 88%	-2 = 95%	-2 = 88%	
-3 = 84%	-3 = 83%	-3 = 93%	-3 = 82%	
-4 = 78%	-4 = 77%	-4 = 90%	-4 = 76%	
-5 = 73%	-5 = 72%	-5 = 88%	-5 = 70%	
-6 = 68%	-6 = 66%	-6 = 85%	-6 = 64%	
-7 = 63%	-7 = 61%	-7 = 83%	-7 = 58%	

Lesson 11 20 Possible	Lesson 12 21 Possible	Lesson 13 17 Possible	Lesson 14 26 Possible	Lesson 15 23 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 97%	-1 = 94%	-1 = 96%	-1 = 96%
-2 = 90%	-2 = 94%	-2 = 88%	-2 = 92%	-2 = 91%
-3 = 85%	-3 = 91%	-3 = 82%	-3 = 88%	-3 = 87%
-4 = 80%	-4 = 89%	-4 = 76%	-4 = 85%	-4 = 83%
-5 = 75%	-5 = 86%	-5 = 70%	-5 = 81%	-5 = 78%
-6 = 70%	-6 = 83%	-6 = 64%	-6 = 77%	-6 = 74%
-7 = 65%	-7 = 80%	-7 = 58%	-7 = 73%	-7 = 70%

Lesson 16 17 Possible	Lesson 17 32 Possible	Lesson 18 33 Possible	Lesson 19 24 Possible	Lesson 20 N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 96%	-1 = 97%	-1 = 95%	
-2 = 88%	-2 = 93%	-2 = 94%	-2 = 91%	
-3 = 82%	-3 = 90%	-3 = 91%	-3 = 87%	
-4 = 76%	-4 = 87%	-4 = 88%	-4 = 83%	
-5 = 70%	-5 = 84%	-5 = 85%	-5 = 79%	
-6 = 64%	-6 = 81%	-6 = 82%	-6 = 75%	
-7 = 58%	-7 = 78%	-7 = 79%	-7 = 70%	

Connecting Math Concepts Level E 2003

Independent Work % Chart

(based on total number of textbook and workbook items)

Lesson 21	Lesson 22	Lesson 23	Lesson 24	Lesson 25
17 Possible	**22 Possible**	**17 Possible**	**14 Possible**	**19 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 94%	-1 = 95%	-1 = 94%	-1 = 92%	-1 = 94%
-2 = 88%	-2 = 90%	-2 = 88%	-2 = 85%	-2 = 89%
-3 = 82%	-3 = 86%	-3 = 82%	-3 = 78%	-3 = 84%
-4 = 76%	-4 = 81%	-4 = 76%	-4 = 71%	-4 = 78%
-5 = 70%	-5 = 77%	-5 = 70%	-5 = 64%	-5 = 73%
-6 = 64%	-6 = 72%	-6 = 64%	-6 = 57%	-6 = 68%
-7 = 58%	-7 = 68%	-7 = 58%	-7 = 50%	-7 = 63%
Lesson 26	**Lesson 27**	**Lesson 28**	**Lesson 29**	**Lesson 30**
15 Possible	**16 Possible**	**25 Possible**	**27 Possible**	**N/A**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 93%	-1 = 93%	-1 = 98%	-1 = 96%	
-2 = 86%	-2 = 87%	-2 = 95%	-2 = 92%	
-3 = 80%	-3 = 81%	-3 = 93%	-3 = 88%	
-4 = 73%	-4 = 75%	-4 = 90%	-4 = 85%	
-5 = 66%	-5 = 68%	-5 = 88%	-5 = 81%	
-6 = 60%	-6 = 62%	-6 = 85%	-6 = 77%	
-7 = 53%	-7 = 56%	-7 = 83%	-7 = 74%	
Lesson 31	**Lesson 32**	**Lesson 33**	**Lesson 34**	**Lesson 35**
16 Possible	**16 Possible**	**12 Possible**	**15 Possible**	**21 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 93%	-1 = 96%	-1 = 91%	-1 = 93%	-1 = 97%
-2 = 87%	-2 = 93%	-2 = 83%	-2 = 86%	-2 = 94%
-3 = 81%	-3 = 90%	-3 = 75%	-3 = 80%	-3 = 91%
-4 = 75%	-4 = 87%	-4 = 66%	-4 = 73%	-4 = 89%
-5 = 68%	-5 = 83%	-5 = 58%	-5 = 66%	-5 = 86%
-6 = 62%	-6 = 80%	-6 = 50%	-6 = 60%	-6 = 83%
-7 = 56%	-7 = 77%	-7 = 41%	-7 = 53%	-7 = 80%
Lesson 36	**Lesson 37**	**Lesson 38**	**Lesson 39**	**Lesson 40**
19 Possible	**23 Possible**	**22 Possible**	**20 Possible**	**N/A**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 96%	-1 = 95%	-1 = 95%	
-2 = 89%	-2 = 91%	-2 = 90%	-2 = 90%	
-3 = 84%	-3 = 87%	-3 = 86%	-3 = 85%	
-4 = 78%	-4 = 83%	-4 = 81%	-4 = 80%	
-5 = 73%	-5 = 78%	-5 = 77%	-5 = 75%	
-6 = 68%	-6 = 74%	-6 = 72%	-6 = 70%	
-7 = 63%	-7 = 70%	-7 = 68%	-7 = 65%	

Lesson 41 13 Possible	Lesson 42 15 Possible	Lesson 43 21 Possible	Lesson 44 22 Possible	Lesson 45 20 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 92%	-1 = 95%	-1 = 97%	-1 = 95%	-1 = 95%
-2 = 84%	-2 = 91%	-2 = 94%	-2 = 90%	-2 = 90%
-3 = 76%	-3 = 86%	-3 = 91%	-3 = 86%	-3 = 85%
-4 = 69%	-4 = 82%	-4 = 89%	-4 = 81%	-4 = 80%
-5 = 61%	-5 = 78%	-5 = 86%	-5 = 77%	-5 = 75%
-6 = 53%	-6 = 73%	-6 = 83%	-6 = 72%	-6 = 70%
-7 = 46%	-7 = 69%	-7 = 80%	-7 = 68%	-7 = 65%
Lesson 46 23 Possible	**Lesson 47** 19 Possible	**Lesson 48** 20 Possible	**Lesson 49** 22 Possible	**Lesson 50** N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 96%	-1 = 94%	-1 = 95%	-1 = 95%	
-2 = 91%	-2 = 89%	-2 = 90%	-2 = 90%	
-3 = 87%	-3 = 84%	-3 = 85%	-3 = 86%	
-4 = 83%	-4 = 78%	-4 = 80%	-4 = 81%	
-5 = 78%	-5 = 73%	-5 = 75%	-5 = 77%	
-6 = 74%	-6 = 68%	-6 = 70%	-6 = 72%	
-7 = 70%	-7 = 63%	-7 = 65%	-7 = 68%	
Lesson 51 17 Possible	Lesson 52 16 Possible	Lesson 53 18 Possible	Lesson 54 18 Possible	Lesson 55 23 Possible
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 94%	-1 = 93%	-1 = 94%	-1 = 94%	-1 = 96%
-2 = 88%	-2 = 87%	-2 = 88%	-2 = 88%	-2 = 91%
-3 = 82%	-3 = 81%	-3 = 83%	-3 = 83%	-3 = 87%
-4 = 76%	-4 = 75%	-4 = 77%	-4 = 77%	-4 = 83%
-5 = 70%	-5 = 68%	-5 = 72%	-5 = 72%	-5 = 78%
-6 = 64%	-6 = 62%	-6 = 66%	-6 = 66%	-6 = 74%
-7 = 58%	-7 = 56%	-7 = 61%	-7 = 61%	-7 = 70%
Lesson 56 20 Possible	**Lesson 57** 18 Possible	**Lesson 58** 17 Possible	**Lesson 59** 15 Possible	**Lesson 60** N/A
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 95%	-1 = 94%	-1 = 94%	-1 = 93%	
-2 = 90%	-2 = 88%	-2 = 88%	-2 = 86%	
-3 = 85%	-3 = 83%	-3 = 82%	-3 = 80%	
-4 = 80%	-4 = 77%	-4 = 76%	-4 = 73%	
-5 = 75%	-5 = 72%	-5 = 70%	-5 = 66%	
-6 = 70%	-6 = 66%	-6 = 64%	-6 = 60%	
-7 = 65%	-7 = 61%	-7 = 58%	-7 = 53%	

Lesson 61	Lesson 62	Lesson 63	Lesson 64	Lesson 65
20 Possible	**20 Possible**	**19 Possible**	**17 Possible**	**21 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 95%	-1 = 94%	-1 = 94%	-1 = 97%
-2 = 90%	-2 = 90%	-2 = 89%	-2 = 88%	-2 = 94%
-3 = 85%	-3 = 85%	-3 = 84%	-3 = 82%	-3 = 91%
-4 = 80%	-4 = 80%	-4 = 78%	-4 = 76%	-4 = 89%
-5 = 75%	-5 = 75%	-5 = 73%	-5 = 70%	-5 = 86%
-6 = 70%	-6 = 70%	-6 = 68%	-6 = 64%	-6 = 83%
-7 = 65%	-7 = 65%	-7 = 63%	-7 = 58%	-7 = 80%
Lesson 66	**Lesson 67**	**Lesson 68**	**Lesson 69**	**Lesson 70**
32 Possible	**22 Possible**	**21 Possible**	**22 Possible**	**N/A Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 96%	-1 = 95%	-1 = 97%	-1 = 95%	
-2 = 93%	-2 = 90%	-2 = 94%	-2 = 90%	
-3 = 90%	-3 = 86%	-3 = 91%	-3 = 86%	
-4 = 87%	-4 = 81%	-4 = 89%	-4 = 81%	
-5 = 84%	-5 = 77%	-5 = 86%	-5 = 77%	
-6 = 81%	-6 = 72%	-6 = 83%	-6 = 72%	
-7 = 78%	-7 = 68%	-7 = 80%	-7 = 68%	
Lesson 71	**Lesson 72**	**Lesson 73**	**Lesson 74**	**Lesson 75**
25 Possible	**22 Possible**	**21 Possible**	**27 Possible**	**27 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 98%	-1 = 95%	-1 = 97%	-1 = 96%	-1 = 96%
-2 = 95%	-2 = 90%	-2 = 94%	-2 = 92%	-2 = 92%
-3 = 93%	-3 = 86%	-3 = 91%	-3 = 88%	-3 = 88%
-4 = 90%	-4 = 81%	-4 = 89%	-4 = 85%	-4 = 85%
-5 = 88%	-5 = 77%	-5 = 86%	-5 = 81%	-5 = 81%
-6 = 85%	-6 = 72%	-6 = 83%	-6 = 77%	-6 = 77%
-7 = 83%	-7 = 68%	-7 = 80%	-7 = 74%	-7 = 74%
Lesson 76	**Lesson 77**	**Lesson 78**	**Lesson 79**	**Lesson 80**
18 Possible	**16 Possible**	**22 Possible**	**18 Possible**	**N/A**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 93%	-1 = 95%	-1 = 94%	
-2 = 88%	-2 = 87%	-2 = 90%	-2 = 88%	
-3 = 83%	-3 = 81%	-3 = 86%	-3 = 83%	
-4 = 77%	-4 = 75%	-4 = 81%	-4 = 77%	
-5 = 72%	-5 = 68%	-5 = 77%	-5 = 72%	
-6 = 66%	-6 = 62%	-6 = 72%	-6 = 66%	
-7 = 61%	-7 = 56%	-7 = 68%	-7 = 61%	

Lesson 81	Lesson 82	Lesson 83	Lesson 84	Lesson 85
20 Possible	**23 Possible**	**14 Possible**	**22 Possible**	**23 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 95%	-1 = 96%	-1 = 92%	-1 = 95%	-1 = 97%
-2 = 90%	-2 = 91%	-2 = 85%	-2 = 90%	-2 = 93%
-3 = 85%	-3 = 87%	-3 = 78%	-3 = 86%	-3 = 90%
-4 = 80%	-4 = 83%	-4 = 71%	-4 = 81%	-4 = 87%
-5 = 75%	-5 = 78%	-5 = 64%	-5 = 77%	-5 = 83%
-6 = 70%	-6 = 74%	-6 = 57%	-6 = 72%	-6 = 80%
-7 = 65%	-7 = 70%	-7 = 50%	-7 = 68%	-7 = 77%

Lesson 86	Lesson 87	Lesson 88	Lesson 89	Lesson 90
17 Possible	**23 Possible**	**21 Possible**	**26 Possible**	**N/A**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 96%	-1 = 97%	-1 = 96%	
-2 = 88%	-2 = 91%	-2 = 94%	-2 = 92%	
-3 = 82%	-3 = 87%	-3 = 91%	-3 = 88%	
-4 = 76%	-4 = 83%	-4 = 89%	-4 = 85%	
-5 = 70%	-5 = 78%	-5 = 86%	-5 = 81%	
-6 = 64%	-6 = 74%	-6 = 83%	-6 = 77%	
-7 = 58%	-7 = 70%	-7 = 80%	-7 = 73%	

Lesson 91	Lesson 92	Lesson 93	Lesson 94	Lesson 95
23 Possible	**22 Possible**	**27 Possible**	**35 Possible**	**32 Possible**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%
-1 = 96%	-1 = 95%	-1 = 96%	-1 = 97%	-1 = 96%
-2 = 91%	-2 = 90%	-2 = 92%	-2 = 94%	-2 = 93%
-3 = 87%	-3 = 86%	-3 = 88%	-3 = 91%	-3 = 90%
-4 = 83%	-4 = 81%	-4 = 85%	-4 = 88%	-4 = 87%
-5 = 78%	-5 = 77%	-5 = 81%	-5 = 85%	-5 = 84%
-6 = 74%	-6 = 72%	-6 = 77%	-6 = 82%	-6 = 81%
-7 = 70%	-7 = 68%	-7 = 74%	-7 = 80%	-7 = 78%

Lesson 96	Lesson 97	Lesson 98	Lesson 99	Lesson 100
17 Possible	**24 Possible**	**17 Possible**	**25 Possible**	**N/A**
-0 = 100%	-0 = 100%	-0 = 100%	-0 = 100%	
-1 = 94%	-1 = 95%	-1 = 94%	-1 = 98%	
-2 = 88%	-2 = 91%	-2 = 88%	-2 = 95%	
-3 = 82%	-3 = 87%	-3 = 82%	-3 = 93%	
-4 = 76%	-4 = 83%	-4 = 76%	-4 = 90%	
-5 = 70%	-5 = 79%	-5 = 70%	-5 = 88%	
-6 = 64%	-6 = 75%	-6 = 64%	-6 = 85%	
-7 = 58%	-7 = 70%	-7 = 58%	-7 = 83%	

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%