# 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.



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 N/A | Lesson 2 15 Possible | Lesson 3 21 Possible | Lesson 4 23 Possible | Lesson 5 21 Possible |
|---|---|---|---|---|
| | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| | -1 = 93% | -1 = 97% | -1 = 96% | -1 = 97% |
| | -2 = 86% | -2 = 94% | -2 = 91% | -2 = 94% |
| | -3 = 80% | -3 = 91% | -3 = 87% | -3 = 91% |
| | -4 = 73% | -4 = 89% | -4 = 83% | -4 = 89% |
| | -5 = 66% | -5 = 86% | -5 = 78% | -5 = 86% |
| | -6 = 60% | -6 = 83% | -6 = 74% | -6 = 83% |
| | -7 = 53% | -7 = 80% | -7 = 70% | -7 = 80% |

| Lesson 6 17 Possible | Lesson 7 28 Possible | Lesson 8 19 Possible | Lesson 9 21 Possible | Lesson 10 N/A |
|---|---|---|---|---|
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 94% | -1 = 96% | -1 = 94% | -1 = 97% | |
| -2 = 88% | -2 = 92% | -2 = 89% | -2 = 94% | |
| -3 = 82% | -3 = 89% | -3 = 84% | -3 = 91% | |
| -4 = 76% | -4 = 85% | -4 = 78% | -4 = 89% | |
| -5 = 70% | -5 = 82% | -5 = 73% | -5 = 86% | |
| -6 = 64% | -6 = 78% | -6 = 68% | -6 = 83% | |
| -7 = 58% | -7 = 75% | -7 = 63% | -7 = 80% | |

| Lesson 11 20 Possible | Lesson 12 12 Possible | Lesson 13 13 Possible | Lesson 14 26 Possible | Lesson 15 25 Possible |
|---|---|---|---|---|
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 95% | -1 = 91% | -1 = 92% | -1 = 96% | -1 = 98% |
| -2 = 90% | -2 = 83% | -2 = 84% | -2 = 92% | -2 = 95% |
| -3 = 85% | -3 = 75% | -3 = 76% | -3 = 88% | -3 = 93% |
| -4 = 80% | -4 = 66% | -4 = 69% | -4 = 85% | -4 = 90% |
| -5 = 75% | -5 = 58% | -5 = 61% | -5 = 81% | -5 = 88% |
| -6 = 70% | -6 = 50% | -6 = 53% | -6 = 77% | -6 = 85% |
| -7 = 65% | -7 = 41% | -7 = 46% | -7 = 73% | -7 = 83% |

| Lesson 16 15 Possible | Lesson 17 24 Possible | Lesson 18 26 Possible | Lesson 19 18 Possible | Lesson 20 N/A |
|---|---|---|---|---|
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 93% | -1 = 94% | -1 = 96% | -1 = 94% | |
| -2 = 86% | -2 = 88% | -2 = 92% | -2 = 88% | |
| -3 = 80% | -3 = 83% | -3 = 88% | -3 = 83% | |
| -4 = 73% | -4 = 77% | -4 = 85% | -4 = 77% | |
| -5 = 66% | -5 = 72% | -5 = 81% | -5 = 72% | |
| -6 = 60% | -6 = 66% | -6 = 77% | -6 = 66% | |
| -7 = 53% | -7 = 61% | -7 = 73% | -7 = 61% | |

**Connecting Math Concepts Level D 2003**

**Independent Work % Chart**

(based on total number of textbook and workbook items)

| Lesson 21 31 Possible | Lesson 22 24 Possible | Lesson 23 27 Possible | Lesson 24 23 Possible | Lesson 25 31 Possible |
|---|---|---|---|---|
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 96% | -1 = 95% | -1 = 96% | -1 = 96% | -1 = 96% |
| -2 = 93% | -2 = 91% | -2 = 92% | -2 = 91% | -2 = 93% |
| -3 = 90% | -3 = 87% | -3 = 88% | -3 = 87% | -3 = 90% |
| -4 = 87% | -4 = 83% | -4 = 85% | -4 = 83% | -4 = 87% |
| -5 = 83% | -5 = 79% | -5 = 81% | -5 = 78% | -5 = 83% |
| -6 = 80% | -6 = 75% | -6 = 77% | -6 = 74% | -6 = 80% |
| -7 = 77% | -7 = 70% | -7 = 74% | -7 = 70% | -7 = 77% |

| Lesson 26 27 Possible | Lesson 27 36 Possible | Lesson 28 21 Possible | Lesson 29 32 Possible | Lesson 30 N/A |
|---|---|---|---|---|
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 96% | -1 = 97% | -1 = 97% | -1 = 96% | |
| -2 = 92% | -2 = 94% | -2 = 94% | -2 = 93% | |
| -3 = 88% | -3 = 91% | -3 = 91% | -3 = 90% | |
| -4 = 85% | -4 = 88% | -4 = 89% | -4 = 87% | |
| -5 = 81% | -5 = 86% | -5 = 86% | -5 = 84% | |
| -6 = 77% | -6 = 83% | -6 = 83% | -6 = 81% | |
| -7 = 74% | -7 = 80% | -7 = 80% | -7 = 78% | |

| Lesson 31 23 Possible | Lesson 32 31 Possible | Lesson 33 40 Possible | Lesson 34 20 Possible | Lesson 35 29 Possible |
|---|---|---|---|---|
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 96% | -1 = 96% | -1 = 98% | -1 = 95% | -1 = 96% |
| -2 = 91% | -2 = 93% | -2 = 95% | -2 = 90% | -2 = 93% |
| -3 = 87% | -3 = 90% | -3 = 93% | -3 = 85% | -3 = 89% |
| -4 = 83% | -4 = 87% | -4 = 90% | -4 = 80% | -4 = 86% |
| -5 = 78% | -5 = 83% | -5 = 88% | -5 = 75% | -5 = 82% |
| -6 = 74% | -6 = 80% | -6 = 85% | -6 = 70% | -6 = 79% |
| -7 = 70% | -7 = 77% | -7 = 83% | -7 = 65% | -7 = 75% |

| Lesson 36 30 Possible | Lesson 37 24 Possible | Lesson 38 26 Possible | Lesson 39 19 Possible | Lesson 40 N/A |
|---|---|---|---|---|
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 97% | -1 = 95% | -1 = 96% | -1 = 94% | |
| -2 = 93% | -2 = 91% | -2 = 92% | -2 = 89% | |
| -3 = 90% | -3 = 87% | -3 = 88% | -3 = 84% | |
| -4 = 87% | -4 = 83% | -4 = 85% | -4 = 78% | |
| -5 = 83% | -5 = 79% | -5 = 81% | -5 = 73% | |
| -6 = 80% | -6 = 75% | -6 = 77% | -6 = 68% | |
| -7 = 77% | -7 = 70% | -7 = 73% | -7 = 63% | |

| Lesson 41 | Lesson 42 | Lesson 43 | Lesson 44 | Lesson 45 |
|---|---|---|---|---|
| **34 Possible** | **10 Possible** | **14 Possible** | **23 Possible** | **23 Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 97% | -1 = 95% | -1 = 92% | -1 = 96% | -1 = 96% |
| -2 = 94% | -2 = 91% | -2 = 85% | -2 = 91% | -2 = 91% |
| -3 = 91% | -3 = 86% | -3 = 78% | -3 = 87% | -3 = 87% |
| -4 = 88% | -4 = 82% | -4 = 71% | -4 = 83% | -4 = 83% |
| -5 = 85% | -5 = 78% | -5 = 64% | -5 = 78% | -5 = 78% |
| -6 = 82% | -6 = 73% | -6 = 57% | -6 = 74% | -6 = 74% |
| -7 = 79% | -7 = 69% | -7 = 50% | -7 = 70% | -7 = 70% |

| Lesson 46 | Lesson 47 | Lesson 48 | Lesson 49 | Lesson 50 |
|---|---|---|---|---|
| **29 Possible** | **17 Possible** | **28 Possible** | **29 Possible** | **N/A** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 96% | -1 = 94% | -1 = 96% | -1 = 97% | |
| -2 = 93% | -2 = 88% | -2 = 92% | -2 = 94% | |
| -3 = 89% | -3 = 82% | -3 = 89% | -3 = 91% | |
| -4 = 86% | -4 = 76% | -4 = 85% | -4 = 88% | |
| -5 = 82% | -5 = 70% | -5 = 82% | -5 = 85% | |
| -6 = 79% | -6 = 64% | -6 = 78% | -6 = 82% | |
| -7 = 75% | -7 = 58% | -7 = 75% | -7 = 79% | |

| Lesson 51 | Lesson 52 | Lesson 53 | Lesson 54 | Lesson 55 |
|---|---|---|---|---|
| **20 Possible** | **22 Possible** | **28 Possible** | **39 Possible** | **23 Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 95% | -1 = 95% | -1 = 96% | -1 = 97% | -1 = 96% |
| -2 = 90% | -2 = 90% | -2 = 92% | -2 = 93% | -2 = 94% |
| -3 = 85% | -3 = 86% | -3 = 89% | -3 = 90% | -3 = 92% |
| -4 = 80% | -4 = 81% | -4 = 85% | -4 = 87% | -4 = 89% |
| -5 = 75% | -5 = 77% | -5 = 82% | -5 = 83% | -5 = 87% |
| -6 = 70% | -6 = 72% | -6 = 78% | -6 = 80% | -6 = 84% |
| -7 = 65% | -7 = 68% | -7 = 75% | -7 = 77% | -7 = 82% |

| Lesson 56 | Lesson 57 | Lesson 58 | Lesson 59 | Lesson 60 |
|---|---|---|---|---|
| **27 Possible** | **37 Possible** | **24 Possible** | **39 Possible** | **N/A** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 98% | -1 = 97% | -1 = 95% | -1 = 97% | |
| -2 = 95% | -2 = 94% | -2 = 91% | -2 = 94% | |
| -3 = 93% | -3 = 91% | -3 = 87% | -3 = 92% | |
| -4 = 90% | -4 = 89% | -4 = 83% | -4 = 89% | |
| -5 = 88% | -5 = 86% | -5 = 79% | -5 = 87% | |
| -6 = 85% | -6 = 83% | -6 = 75% | -6 = 84% | |
| -7 = 83% | -7 = 81% | -7 = 70% | -7 = 82% | |

| Lesson 61 | Lesson 62 | Lesson 63 | Lesson 64 | Lesson 65 |
|---|---|---|---|---|
| **33 Possible** | **28 Possible** | **45 Possible** | **24 Possible** | **10 Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 97% | -1 = 96% | -1 = 97% | -1 = 95% | -1 = 95% |
| -2 = 94% | -2 = 92% | -2 = 95% | -2 = 91% | -2 = 91% |
| -3 = 91% | -3 = 89% | -3 = 93% | -3 = 87% | -3 = 86% |
| -4 = 88% | -4 = 85% | -4 = 91% | -4 = 83% | -4 = 82% |
| -5 = 85% | -5 = 82% | -5 = 88% | -5 = 79% | -5 = 78% |
| -6 = 82% | -6 = 78% | -6 = 86% | -6 = 75% | -6 = 73% |
| -7 = 79% | -7 = 75% | -7 = 84% | -7 = 70% | -7 = 69% |

| Lesson 66 | Lesson 67 | Lesson 68 | Lesson 69 | Lesson 70 |
|---|---|---|---|---|
| **21 Possible** | **28 Possible** | **22 Possible** | **28 Possible** | **N/A Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 97% | -1 = 96% | -1 = 95% | -1 = 96% | |
| -2 = 94% | -2 = 92% | -2 = 90% | -2 = 92% | |
| -3 = 91% | -3 = 89% | -3 = 86% | -3 = 89% | |
| -4 = 89% | -4 = 85% | -4 = 81% | -4 = 85% | |
| -5 = 86% | -5 = 82% | -5 = 77% | -5 = 82% | |
| -6 = 83% | -6 = 78% | -6 = 72% | -6 = 78% | |
| -7 = 80% | -7 = 75% | -7 = 68% | -7 = 75% | |

| Lesson 71 | Lesson 72 | Lesson 73 | Lesson 74 | Lesson 75 |
|---|---|---|---|---|
| **19 Possible** | **22 Possible** | **17 Possible** | **36 Possible** | **19 Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 94% | -1 = 95% | -1 = 94% | -1 = 97% | -1 = 94% |
| -2 = 89% | -2 = 90% | -2 = 88% | -2 = 94% | -2 = 89% |
| -3 = 84% | -3 = 86% | -3 = 82% | -3 = 91% | -3 = 84% |
| -4 = 78% | -4 = 81% | -4 = 76% | -4 = 88% | -4 = 78% |
| -5 = 73% | -5 = 77% | -5 = 70% | -5 = 86% | -5 = 73% |
| -6 = 68% | -6 = 72% | -6 = 64% | -6 = 83% | -6 = 68% |
| -7 = 63% | -7 = 68% | -7 = 58% | -7 = 80% | -7 = 63% |

| Lesson 76 | Lesson 77 | Lesson 78 | Lesson 79 | Lesson 80 |
|---|---|---|---|---|
| **13 Possible** | **22 Possible** | **21 Possible** | **26 Possible** | **N/A** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 92% | -1 = 95% | -1 = 97% | -1 = 96% | |
| -2 = 84% | -2 = 90% | -2 = 94% | -2 = 92% | |
| -3 = 76% | -3 = 86% | -3 = 91% | -3 = 88% | |
| -4 = 69% | -4 = 81% | -4 = 89% | -4 = 85% | |
| -5 = 61% | -5 = 77% | -5 = 86% | -5 = 81% | |
| -6 = 53% | -6 = 72% | -6 = 83% | -6 = 77% | |
| -7 = 46% | -7 = 68% | -7 = 80% | -7 = 73% | |

| Lesson 81 | Lesson 82 | Lesson 83 | Lesson 84 | Lesson 85 |
|---|---|---|---|---|
| **31 Possible** | **28 Possible** | **33 Possible** | **30 Possible** | **30 Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 96% | -1 = 96% | -1 = 97% | -1 = 97% | -1 = 97% |
| -2 = 93% | -2 = 92% | -2 = 94% | -2 = 93% | -2 = 93% |
| -3 = 90% | -3 = 89% | -3 = 91% | -3 = 90% | -3 = 90% |
| -4 = 87% | -4 = 85% | -4 = 88% | -4 = 87% | -4 = 87% |
| -5 = 83% | -5 = 82% | -5 = 85% | -5 = 83% | -5 = 83% |
| -6 = 80% | -6 = 78% | -6 = 82% | -6 = 80% | -6 = 80% |
| -7 = 77% | -7 = 75% | -7 = 79% | -7 = 77% | -7 = 77% |

| Lesson 86 | Lesson 87 | Lesson 88 | Lesson 89 | Lesson 90 |
|---|---|---|---|---|
| **19 Possible** | **15 Possible** | **24 Possible** | **23 Possible** | **N/A** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 94% | -1 = 93% | -1 = 95% | -1 = 96% | |
| -2 = 89% | -2 = 86% | -2 = 91% | -2 = 91% | |
| -3 = 84% | -3 = 80% | -3 = 87% | -3 = 87% | |
| -4 = 78% | -4 = 73% | -4 = 83% | -4 = 83% | |
| -5 = 73% | -5 = 66% | -5 = 79% | -5 = 78% | |
| -6 = 68% | -6 = 60% | -6 = 75% | -6 = 74% | |
| -7 = 63% | -7 = 53% | -7 = 70% | -7 = 70% | |

| Lesson 91 | Lesson 92 | Lesson 93 | Lesson 94 | Lesson 95 |
|---|---|---|---|---|
| **26 Possible** | **19 Possible** | **30 Possible** | **15 Possible** | **15 Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 96% | -1 = 94% | -1 = 97% | -1 = 93% | -1 = 93% |
| -2 = 92% | -2 = 89% | -2 = 93% | -2 = 86% | -2 = 86% |
| -3 = 88% | -3 = 84% | -3 = 90% | -3 = 80% | -3 = 80% |
| -4 = 85% | -4 = 78% | -4 = 87% | -4 = 73% | -4 = 73% |
| -5 = 81% | -5 = 73% | -5 = 83% | -5 = 66% | -5 = 66% |
| -6 = 77% | -6 = 68% | -6 = 80% | -6 = 60% | -6 = 60% |
| -7 = 73% | -7 = 63% | -7 = 77% | -7 = 53% | -7 = 53% |

| Lesson 96 | Lesson 97 | Lesson 98 | Lesson 99 | Lesson 100 |
|---|---|---|---|---|
| **13 Possible** | **13 Possible** | **10 Possible** | **17 Possible** | **N/A** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | |
| -1 = 92% | -1 = 92% | -1 = 95% | -1 = 94% | |
| -2 = 84% | -2 = 84% | -2 = 91% | -2 = 88% | |
| -3 = 76% | -3 = 76% | -3 = 86% | -3 = 82% | |
| -4 = 69% | -4 = 69% | -4 = 82% | -4 = 76% | |
| -5 = 61% | -5 = 61% | -5 = 78% | -5 = 70% | |
| -6 = 53% | -6 = 53% | -6 = 73% | -6 = 64% | |
| -7 = 46% | -7 = 46% | -7 = 69% | -7 = 58% | |

| Lesson 101 | Lesson 102 | Lesson 103 | Lesson 104 | Lesson 105 |
|---|---|---|---|---|
| **11 Possible** | **N/A** | **16 Possible** | **N/A** | **19 Possible** |
| -0 = 100% | | -0 = 100% | | -0 = 100% |
| -1 = 90% | | -1 = 93% | | -1 = 94% |
| -2 = 81% | | -2 = 87% | | -2 = 89% |
| -3 = 72% | | -3 = 81% | | -3 = 84% |
| -4 = 63% | | -4 = 75% | | -4 = 78% |
| -5 = 54% | | -5 = 68% | | -5 = 73% |
| -6 = 45% | | -6 = 62% | | -6 = 68% |
| -7 = 36% | | -7 = 56% | | -7 = 63% |

| Lesson 106 | Lesson 107 | Lesson 108 | Lesson 109 | Lesson 110 |
|---|---|---|---|---|
| **16 Possible** | **4 Possible** | **23 Possible** | **16 Possible** | **11 Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 93% | -1 = 75% | -1 = 96% | -1 = 93% | -1 = 90% |
| -2 = 87% | -2 = 50% | -2 = 91% | -2 = 87% | -2 = 81% |
| -3 = 81% | -3 = 25% | -3 = 87% | -3 = 81% | -3 = 72% |
| -4 = 75% | | -4 = 83% | -4 = 75% | -4 = 63% |
| -5 = 68% | | -5 = 78% | -5 = 68% | -5 = 54% |
| -6 = 62% | | -6 = 74% | -6 = 62% | -6 = 45% |
| -7 = 56% | | -7 = 70% | -7 = 56% | -7 = 36% |

| Lesson 111 | Lesson 112 | Lesson 113 | Lesson 114 | Lesson 115 |
|---|---|---|---|---|
| **7 Possible** | **8 Possible** | **8 Possible** | **11 Possible** | **14 Possible** |
| -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% | -0 = 100% |
| -1 = 85% | -1 = 87% | -1 = 87% | -1 = 90% | -1 = 96% |
| -2 = 71% | -2 = 75% | -2 = 75% | -2 = 81% | -2 = 92% |
| -3 = 57% | -3 = 62% | -3 = 62% | -3 = 72% | -3 = 88% |
| -4 = 42% | -4 = 50% | -4 = 50% | -4 = 63% | -4 = 85% |
| -5 = 28% | -5 = 37% | -5 = 37% | -5 = 54% | -5 = 81% |
| -6 = 14% | -6 = 25% | -6 = 25% | -6 = 45% | -6 = 77% |
| | -7 = 12% | -7 = 12% | -7 = 36% | -7 = 73% |

| Lesson 116 | Lesson 117 | Lesson 118 | Lesson 119 | Lesson 120 |
|---|---|---|---|---|
| **8 Possible** | **N/A** | **N/A** | **N/A** | **N/A** |
| -0 = 100% | | | | |
| -1 = 87% | | | | |
| -2 = 75% | | | | |
| -3 = 62% | | | | |
| -4 = 50% | | | | |
| -5 = 37% | | | | |
| -6 = 25% | | | | |
| -7 = 12% | | | | |