

# Continuous Improvement in the Algebra Classroom

presented by Heather Sparks, NBCT

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## AGENDA

- I. The History of Continuous Improvement
- II. Implementation of C.I.
  - A. LtoJ
  - B. Procedures
- III. Applications of C.I.
  - A. Facts
  - B. Vocabulary
- IV. Questions

## **Bibliography**

Permission to Forget: And Nine Other Root Causes of America's Frustration with Education by Lee Jenkins

Continuous Improvement in the Mathematics Classroom by Carolyn Ayers

## **Notes:**

## **Implementing Continuous Improvement**

1. Select a day to give weekly quizzes (e.g., every Tuesday).
2. On the given day, distribute quizzes and answer sheets. Once quizzes are complete, collect answer sheets to “grade” and go over answers to the quiz questions. OR...use Classroom Response System.
3. “Grade” the quizzes (no actual grades are given) and return the answer sheets to the students.
4. Students graph their results on their CI graphs.
5. Teacher graphs the class data on a class graph and plans a celebration for any “All-time-high”.
6. The following week, repeat the process.

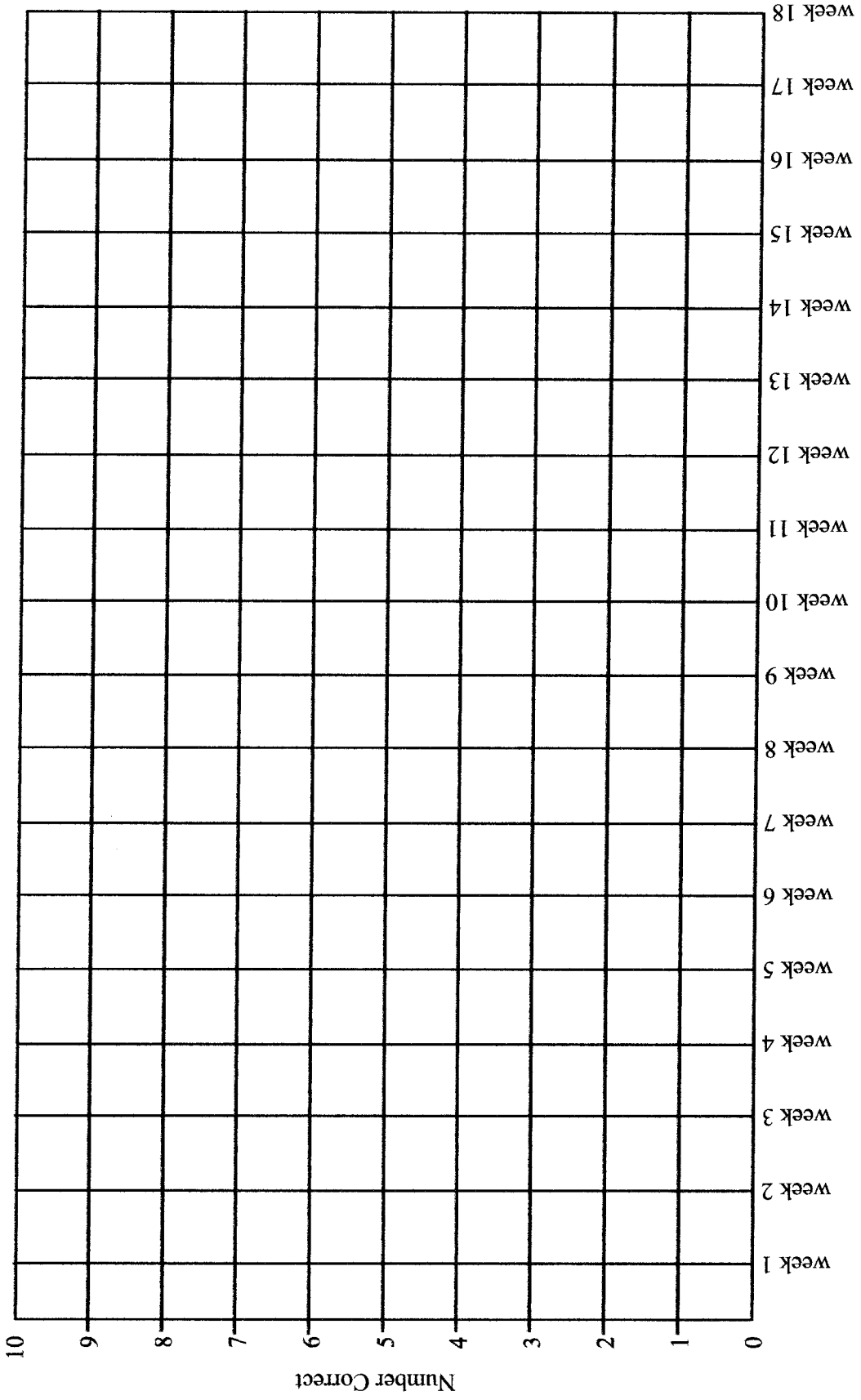
Time needed:

To take quizzes, students generally need no more than 15 minutes. Review of the answers with students usually takes 7-10 minutes. Graphing data takes less than 2 minutes.

Student growth and confidence: Priceless!

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Continuous Improvement Graph for \_\_\_\_\_



Name \_\_\_\_\_

Date \_\_\_\_\_

Key# 15



?

1 x 5 = _____	3 x 0 = _____	4 x 5 = _____	6 x 0 = _____
7 x 5 = _____	9 x 0 = _____	1 x 4 = _____	2 x 9 = _____
4 x 4 = _____	5 x 9 = _____	7 x 4 = _____	8 x 9 = _____
1 x 3 = _____	2 x 8 = _____	4 x 3 = _____	5 x 8 = _____
7 x 3 = _____	8 x 8 = _____	1 x 2 = _____	2 x 7 = _____
4 x 2 = _____	5 x 7 = _____	7 x 2 = _____	8 x 7 = _____
1 x 1 = _____	2 x 6 = _____	4 x 1 = _____	5 x 6 = _____
7 x 1 = _____	8 x 6 = _____	1 x 0 = _____	2 x 5 = _____
4 x 0 = _____	5 x 5 = _____	7 x 0 = _____	8 x 5 = _____
0 x 9 = _____	2 x 4 = _____	3 x 9 = _____	5 x 4 = _____
6 x 9 = _____	8 x 4 = _____	9 x 9 = _____	0 x 8 = _____
2 x 3 = _____	3 x 8 = _____	5 x 3 = _____	6 x 8 = _____
8 x 3 = _____	9 x 8 = _____	0 x 7 = _____	2 x 2 = _____
3 x 7 = _____	5 x 2 = _____	6 x 7 = _____	8 x 2 = _____
9 x 7 = _____	0 x 6 = _____	2 x 1 = _____	3 x 6 = _____
5 x 1 = _____	6 x 6 = _____	8 x 1 = _____	9 x 6 = _____
0 x 5 = _____	2 x 0 = _____	3 x 5 = _____	5 x 0 = _____
6 x 5 = _____	8 x 0 = _____	9 x 5 = _____	0 x 4 = _____
1 x 9 = _____	3 x 4 = _____	4 x 9 = _____	6 x 4 = _____
7 x 9 = _____	9 x 4 = _____	0 x 3 = _____	1 x 8 = _____
3 x 3 = _____	4 x 8 = _____	6 x 3 = _____	7 x 8 = _____
9 x 3 = _____	0 x 2 = _____	1 x 7 = _____	3 x 2 = _____
4 x 7 = _____	6 x 2 = _____	7 x 7 = _____	9 x 2 = _____
0 x 1 = _____	1 x 6 = _____	3 x 1 = _____	4 x 6 = _____
6 x 1 = _____	7 x 6 = _____	9 x 1 = _____	0 x 0 = _____

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FlashCardMath.com

Continuous Improvement Graph for \_\_\_\_\_

