



Welcome

RSVP Math In-Service
November 17, 2009

[Agenda]

- Math Trailblazer Overview
- New Way of Learning
- Examples
- Questions

Math Trailblazers Overview

MTB is a complete, research-based, K-5 mathematics program integrating math, science, and language arts. The standards-based program is based on the belief that children learn best when engaged in problem-solving exercises that utilize real-world contexts.

[MTB Continued]

Through this curriculum, students become powerful mathematics thinkers by learning how to apply the lessons in MTB.

[Problem Solving]

This is a defining characteristic of MTB.
Mathematics is learned best through active involvement using authentic problems.

[Learning]

Students will learn to compute accurately, problem solve, and develop fluency in basic facts.

[Learning]

Students benefit from working in teams, sharing ideas and connecting with one another. They are able to practice their communication skills, as well as solve problems and better understand math concepts.

Individual work allows students to reflect on and solidify their own learning.

[A New Way of Learning]

- Partial Sums Addition
- Left to Right Subtraction
- Partial Products Multiplication
- Partial Quotients Method

[Partial Sums Addition Method]

$$\begin{array}{r} 148 \\ 67 \\ + 266 \\ \hline \end{array}$$

$$\begin{array}{r} 300 \\ 160 \\ + 21 \\ \hline 481 \end{array}$$

[Left to Right Subtraction]

- “Left to right” refers to the decomposition of the second number. In the example, $325-58$, the 58 is decomposed as $50+8$. The individual subtractions are done mentally.

Left to Right Subtraction Examples

$$325 - 58 = 267$$

$$\begin{array}{r} 325 \\ - 50 \\ \hline 275 \\ - 8 \\ \hline 267 \end{array}$$

$$347 - 64 = 283$$

$$\begin{array}{r} 347 \\ - 60 \\ \hline 287 \\ - 4 \\ \hline 283 \end{array}$$

[Partial Products]

$$83 \times 27 = 2241$$

$$\begin{array}{r} 83 \\ \times 27 \\ \hline 80 \times 20 = 1600 \\ 80 \times 7 = 560 \\ 3 \times 20 = 60 \\ 3 \times 7 = 21 \\ \hline 2241 \end{array}$$

[Partial Quotients Method]

$$\begin{array}{r} 90 \text{ R } 3 \\ 6 \overline{) 543} \quad 50 \\ \underline{-300} \\ 243 \quad 40 \\ \underline{-240} \\ 3 \end{array}$$

Thank You!

- Questions
- Comments