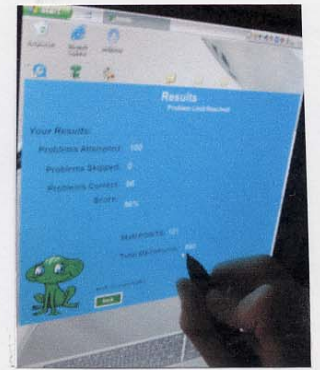


A proposal by Ann Williams (parent)
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Prepared for Old Trail School
October 15, 2007



Problem: Math Facts

Teachers and parents have so little time.
Kids don't like drill.

Solution: Tablet PC Math System

A training system based on Tablet PCs and a web interface. The system allows students to write directly on a tablet pc to solve various types of simple mathematics problems. It also allows students to create scratch work for harder problems (ie. long division).

The students can have exercises assigned to them by a teacher, or practice on their own. The teachers interact with the system through a web based interface. Through this interface, teachers can monitor student and class performance, assign exercises and manage their class.

Teachers can also view class results in real time, and view individual scratch work of students filtered by various criterias.

The Tablet PC Math system was developed at Carnegie Mellon University (CMU) to provide a pen-based smart environment for doing simple mathematics problems. CMU is looking for schools to pilot test the system. Dr. Ananda Gunawardina is the contact at CMU (guna@cs.cmu.edu)

Benefit to Old Trail: Access to leading edge technology and opportunity to drive the design of the system. Provide parents and teachers with an effective way of getting children to learn the math facts without giving up valuable class time.

Benefit to CMU: Feedback on the system resulting in improved and more effective software design.

Features:

Write directly on Tablet PC, including scratch work that teachers can view in real time or later

Teachers can create assignments

Kids can select from a menu of problem types

Web interface allows teachers to interact in real time to monitor student and class performance

System assigns points for problems completed correctly

Very EASY to use

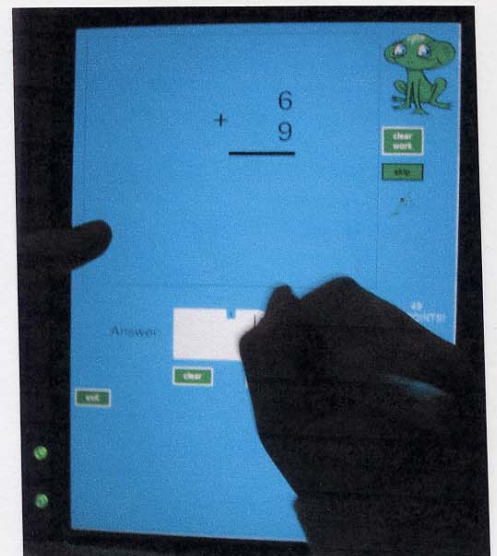
Selections include:

Addition, Subtraction, Multiplication, Division up to 3 digits

Timed or not timed

Specify number of problems or unlimited

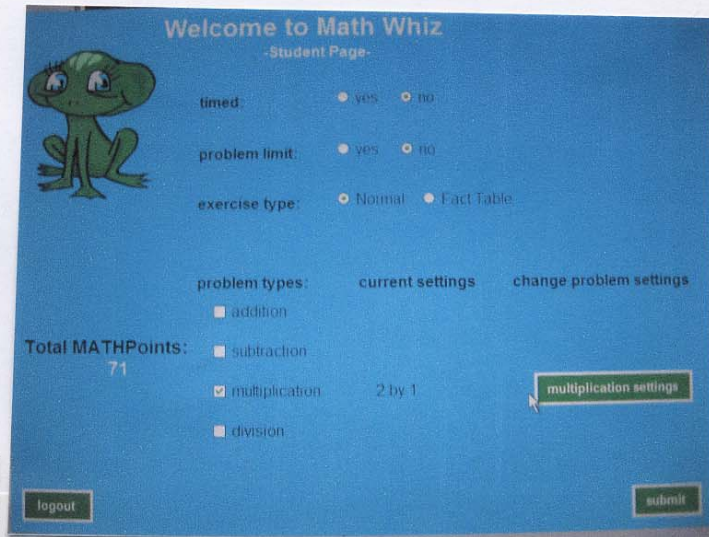
Fact families



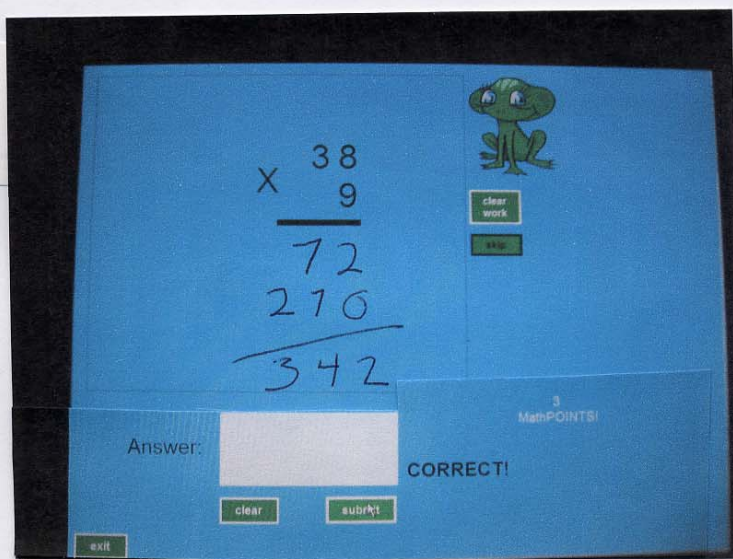
My Students

Click 'name' to view student performance, click 'class' to view class performance

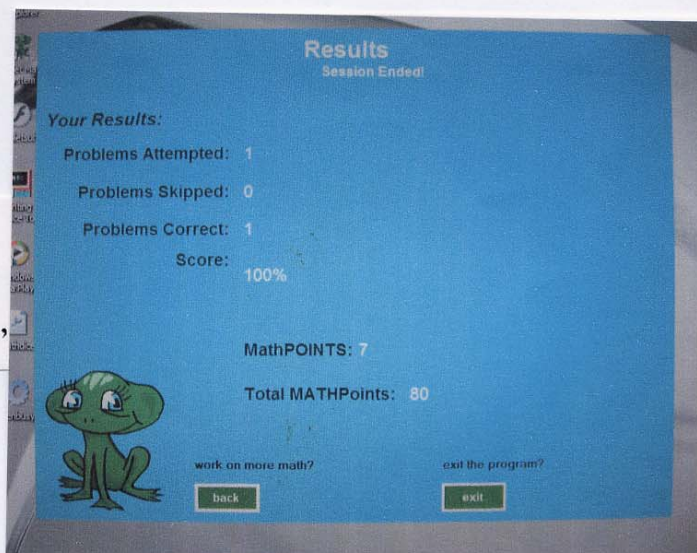
Name	Class
Benjamin Williams	Ann's Class
Andrew Williams	Ann's Class
Ann Williams	Ann's Class



Screen Shot
Student selects exercise



Screen Shot
Student solves problem on screen
(System provides immediate feedback, and "Mathpoints")



Screen Shot
Student receives session feedback

Your Search Results

[<< Previous](#)

[Next >>](#)

$$\begin{array}{r} \times 7 \\ 9 \\ \hline \end{array}$$

Very good!

63

[Benjamin Williams](#)

$$\begin{array}{r} + 38 \\ 2 \\ \hline \end{array}$$

[Benjamin Williams](#)

$$\begin{array}{r} + 83 \\ 6 \\ \hline \end{array}$$

89

[Benjamin Williams](#)

$$\begin{array}{r} \times 7 \\ 9 \\ \hline \end{array}$$

Good!

63

[Benjamin Williams](#)

$$\begin{array}{r} \times 10 \\ 9 \\ \hline \end{array}$$

[Benjamin Williams](#)

$$\begin{array}{r} \times 5 \\ 9 \\ \hline \end{array}$$

50

[Benjamin Williams](#)

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Teacher reviews "scratch work" online

Class

Ann's Class

time period of recent records

last week

Class Exercise by gender

This class has no associated exercise data

Self-study by gender

Score	avg attempted	gender	operator
100	7	female	+
92.92	212	male	+

Class Exercises

Score	tried	+ - x /	last name	first name
92.92	212	+	Williams	Benjamin
100	7	+	Williams	Ann

Self-study exercises

Score	tried	+ - x /	last name	first name
92.92	212	+	Williams	Benjamin
100	7	+	Williams	Ann

Teacher reviews class work by student on line