

Math Fax

Student User's Guide

Authored By:

Nicholas R. Handelman

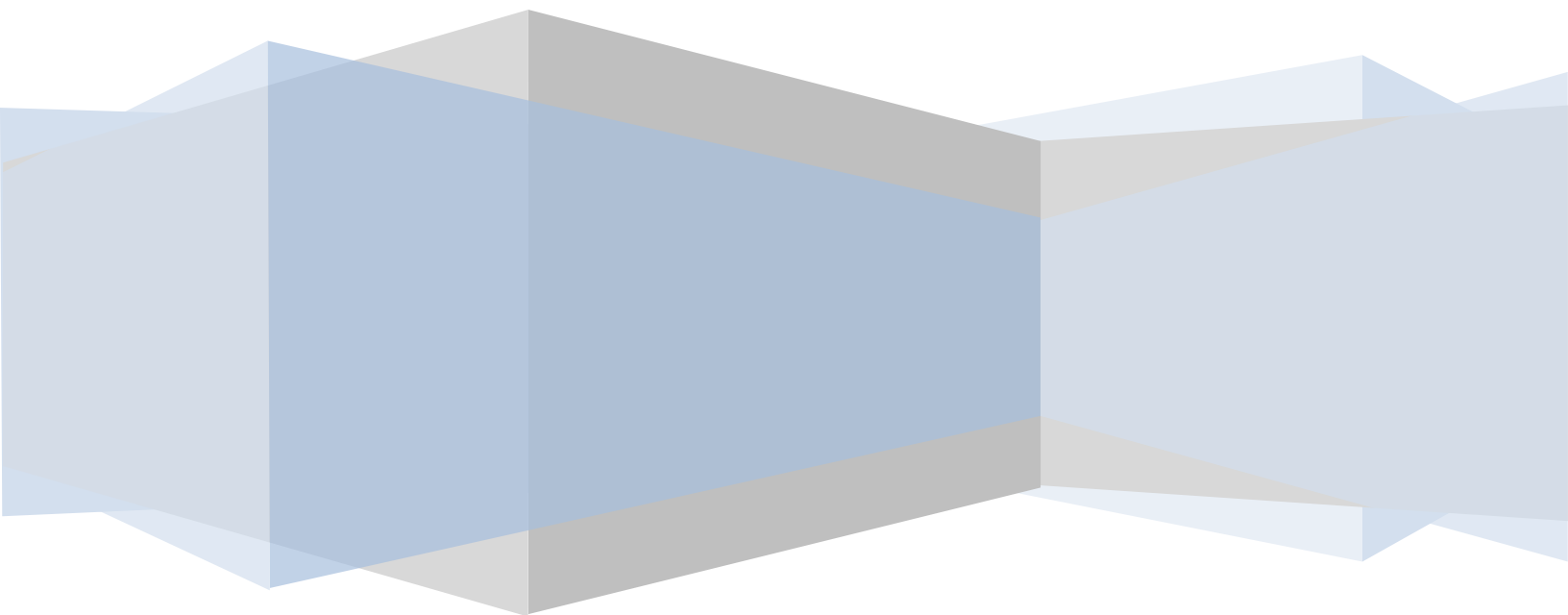


Table of Contents

Introduction	3
Getting Started	3
Creating an Account.....	4
Logging In and Logging Out.....	5
Main Menu and Side Menu	6
Take Test	8
Take Practice Test	11
View My Results.....	14
View My Goals	16
Troubleshooting and Further Assistance	17
About MathFax	17

Introduction

Welcome students! Math Facts is a game where a student answers as many questions out of twenty as he or she can in the allotted time, usually sixty seconds. This software, MathFax, is an electronic adaptation of that game. This guide will help you understand the features available in MathFax and how to use them. If you have any further questions, please seek help from your school teacher or the person in charge of your computer services.

Getting Started

MathFax supports both Google Chrome and Apple Safari. If you do not have either of these browsers, they can be downloaded at the following locations:

Google Chrome can be found at www.google.com/chrome

Apple Safari can be found at www.apple.com/safari

Once you have downloaded and installed one of these browsers, you must turn AutoFill off. To turn AutoFill off, follow these directions:

In Google Chrome: Click the wrench in the upper right corner next to the address bar.

Click options. In the window, choose the "Personal Stuff" tab. The third option down will be Form autofill. Uncheck "Enable Autofill to fill out web forms in a single click."

In Apple Safari: Go to Preferences -> AutoFill -> uncheck "Other Forms"

Creating an Account

Your teacher will do this for you. Once your account is set up, your teacher will tell you what your username and password are. With this information, you have the ability to log in to MathFax at any time and take advantage of the features it offers.

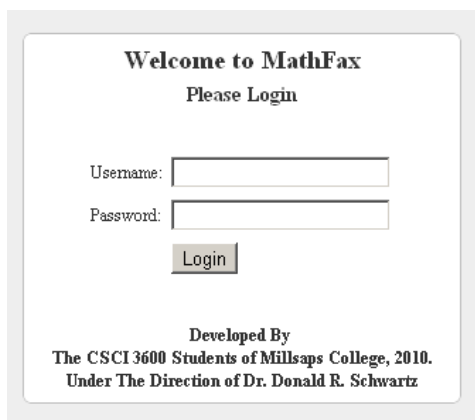
You will need to tell your teacher any specific details about how you like your test to look when you take it. The following options are available:

1. Yellow Screen or White Screen
2. Show Clock or Hide Clock

Also, if you wish to change your password at any time, let your teacher know and that person can do it for you.

Logging In and Logging Out

To access the MathFax website, ask your teacher for the URL (web address) of the website. Once you type in this URL, the following screen should appear:



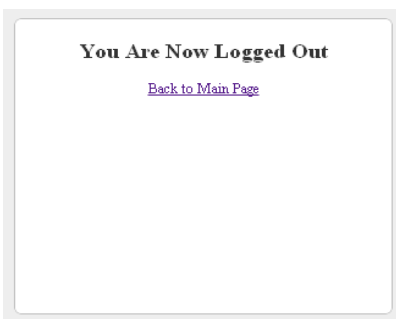
The login screen is a white rectangular box with a light gray border. At the top, it says "Welcome to MathFax" in bold, followed by "Please Login". Below this are two input fields: "Username:" and "Password:". A "Login" button is positioned below the password field. At the bottom, it states "Developed By The CSCI3600 Students of Millsaps College, 2010. Under The Direction of Dr. Donald R. Schwartz".

Enter your username and password in the correct boxes and click "Login". If your username or password is entered incorrectly, you will remain on the same screen.

To Logout, click the light blue button at the top right of your screen that says "Logout".

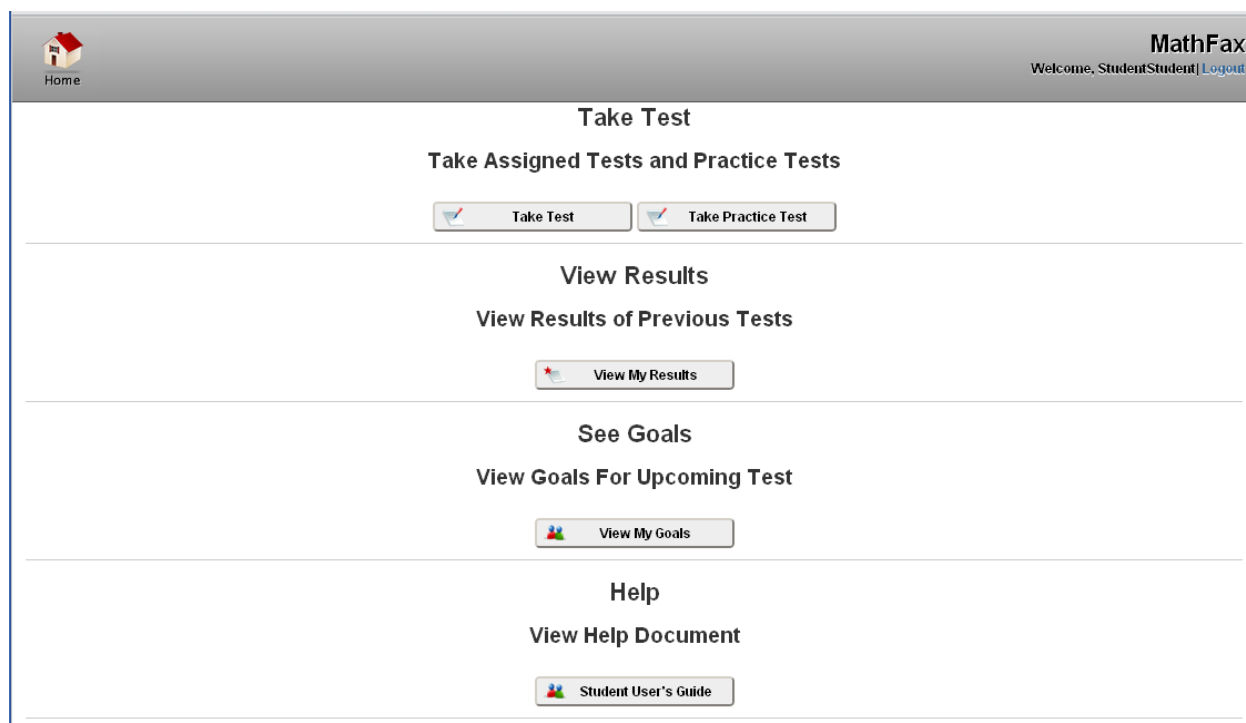


Once you click "Logout", you will be logged out and the following screen will appear:



Main Menu and Side Menu

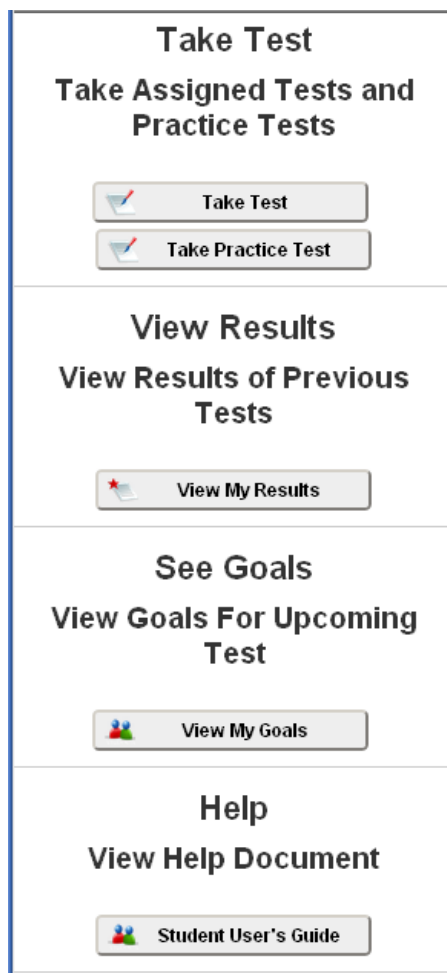
Once you have logged in, the following screen will appear:



To return to this screen from another page, click the button that looks like a house. It is located in the top left corner of the screen and says “Home”.

To access the Student User’s Guide from this page, click on the button that says “Student User’s Guide”. It is located at the bottom of the list of options in the “Help” section, as pictured above.

The following screenshot presents an image of the side menu:



The side menu is present on the left side of every screen within MathFax, except for the screens where you are taking a test. It offers the same options as the main menu and allows you to move directly to another screen without returning to the main menu.

Take Test

This is the screen where you go to take tests assigned by your teacher. You will see one of the following two screens:

If no tests have been assigned to you:

Take Test

Please Select a Test To Take

No tests have been assigned to you. Please ask your teacher for further assistance.

OR:

If at least one test has been assigned to you:

Take Test

Please Select a Test To Take

x4 ▾

Take Test

Select the test you wish to take from the drop down box and click “Take Test.” Be ready, because once you click this button, your test will begin and the countdown timer will start, as displayed by one of the two following screens (pictured on the following page):

Vertical Question Alignment

00:40

1 X 3	1 X 5	0 X 8	0 X 6	0 X 6
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1 X 3	0 X 4	0 X 0	1 X 5	0 X 0
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1 X 3	1 X 5	0 X 8	1 X 7	1 X 7
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
0 X 2	0 X 0	0 X 4	1 X 3	1 X 7
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Horizontal Question Alignment

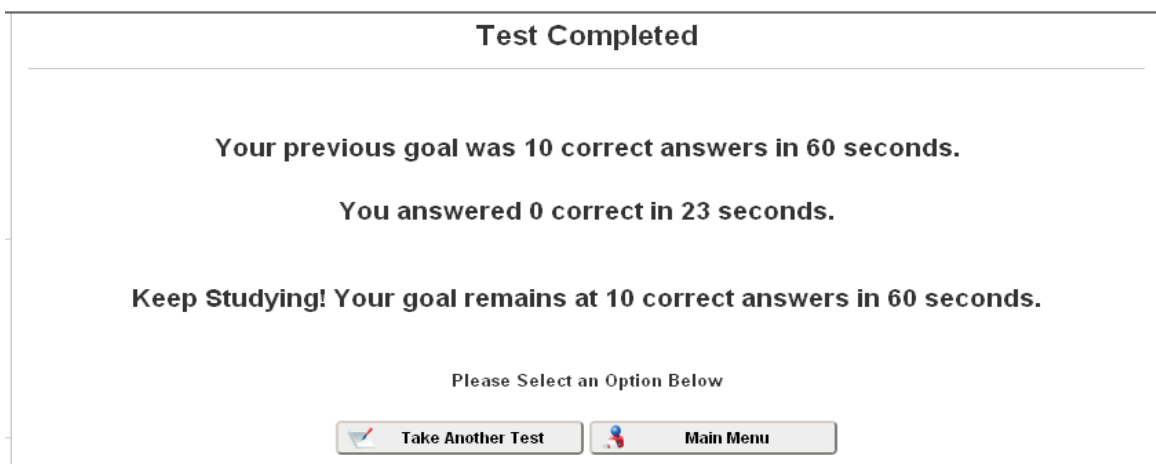
00:56

3+4= <input type="text"/>	15+2= <input type="text"/>	13+1= <input type="text"/>	3+12= <input type="text"/>	1+18= <input type="text"/>
5+2= <input type="text"/>	17+0= <input type="text"/>	9+4= <input type="text"/>	5+14= <input type="text"/>	17+2= <input type="text"/>
18+0= <input type="text"/>	5+6= <input type="text"/>	3+8= <input type="text"/>	6+6= <input type="text"/>	7+4= <input type="text"/>
3+0= <input type="text"/>	19+0= <input type="text"/>	19+1= <input type="text"/>	5+10= <input type="text"/>	1+10= <input type="text"/>

Be aware that your screen may not look exactly like these, but it will have the same general layout depending on the test-specific options you and your teacher set up for your account. See the section entitled “Creating an Account” on page 4 for a list of these options.

Also, be aware that once you click “Take Test” from the previous screen, you will not be able to restart the test. If an error occurs and you wish to retake the test, ask your teacher for permission.

When you click “Submit Test” or the timer runs down to “00:00”, the following screen will appear:



This screen presents your test results and how they compare to your goals. The first line displays your score and time goals. The second line displays your test results, including the number of questions you answered correctly and the time it took you to answer those questions. The third line displays your future score and time goals based on your performance on this test.

At this point, you can choose an option displayed on screen, choose an option from the side menu, or logout.

Take Practice Test

This is the screen where you go to take practice tests. These tests are not assigned by your teacher and have no effect on your grades. They are here to improve your math skills so you can score higher on tests assigned by your teacher! When you click the “Take Practice Test” button, you will see the following screen (the picture is continued on the next page):

Take a Practice Test
Please fill in the information below and click 'Create Test'.
Type of Questions
For example: select 'Addition' to solve only addition problems.
<input type="text" value="Please Select a Question Type"/>
Question Layout Style
<input type="text" value="Vertical"/>
Time Limit
To simulate a real test, enter 60.
<input type="text" value="60"/>
Max Addition and Subtraction Value
This is the largest value that can appear in an addition or subtraction problem.
<input type="text" value="20"/>
Max Multiplication Value
This is the largest value that can appear in a multiplication problem.
<input type="text"/>
Multiplication Fact Restriction
The chosen value(s) will appear as the first number in a multiplication problem.
<input type="text" value="None"/>

Multiplication Fact Restriction

The chosen value(s) will appear as the first number in a multiplication problem.

None ▼

Max Division Value

This is the largest value that can appear in a division problem.

Create Test

The options on this screen allow you to create a test according to your own specifications. Since your teacher will only assign a limited amount of tests, you will have to use this feature to increase your math skills on your own. The following options are available:

1. Type of Questions – Here you choose among addition, subtraction, multiplication, division or any combination of these four.
2. Question Layout Style – Here you choose between a vertical question alignment or a horizontal question alignment.
3. Time Limit – Here you determine your time limit. Any value greater than zero is accepted. For instance, if you need 100 seconds, please feel free to enter that value. However, be aware that tests assigned by your teacher will most likely not give you more than 60 seconds to finish the test.

4. Max Addition/Subtraction Value, Max Multiplication Value and Max Division Value –

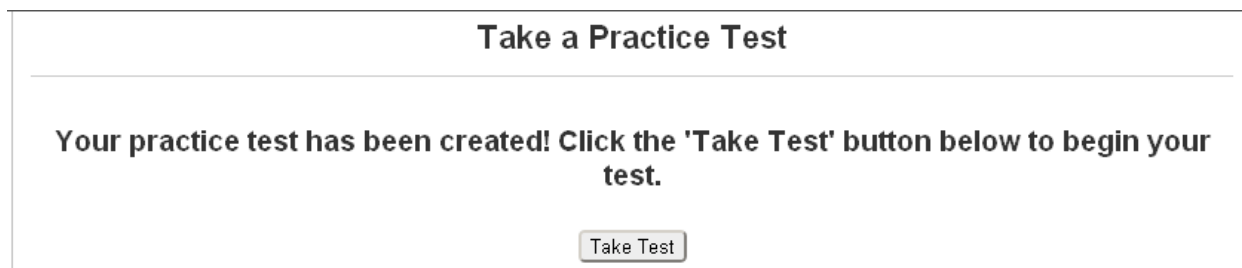
These fields allow you to choose the largest value that can appear when that question type is presented as a problem. Any value greater than zero is accepted.

5. Multiplication Fact Restriction – This field limits the first number in a multiplication problem to the choice selected in the drop down box.

Be aware of the following limitations while creating your test:

1. Your test will always consist of twenty questions. This value can't be changed.
2. When using a horizontal Question Layout Style, large maximum values (over 1000) can cause the test screen to appear out of alignment. This only affects the look of the test. The timer, answer input and scoring all work normally.

When you click “Create Test”, the following screen will appear if no errors occur while generating your test:



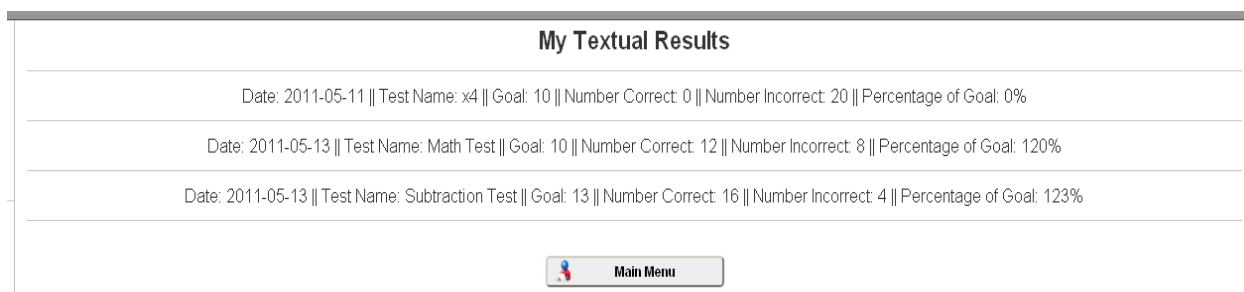
On this screen, click “Take Test” to begin the test you created. Once this button is clicked, the test screen will appear in front of you and you can begin.

View My Results

From the main menu or side menu, click this button to view your results from previous tests. When clicked, the following screen will appear:

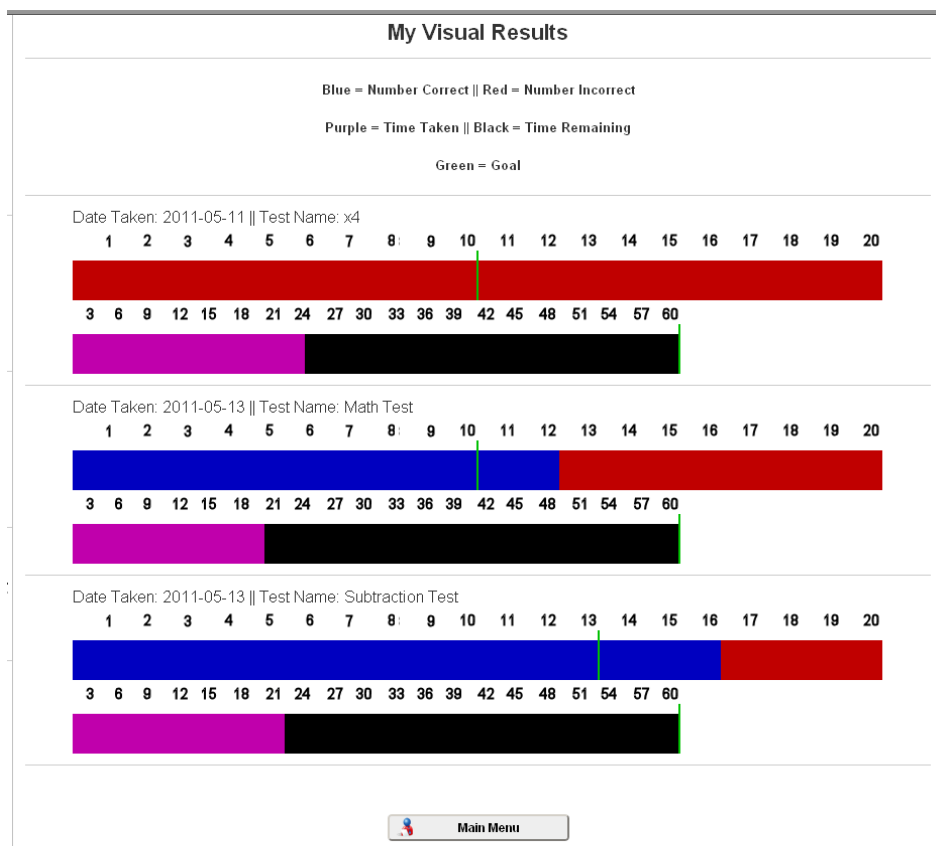


Clicking “Textual Results” will bring up the following screen:



OR:

Clicking “Visual Results” will bring up the following screen (pictured on the next page):




Be aware that your screen will not appear the same as these. It will have the same layout but the number of entries and information within each entry will be different.

If you are having trouble viewing either screen, maximize your browser. This should correct the problem.

If you have not taken any assigned tests, clicking on either option will present the following screen:

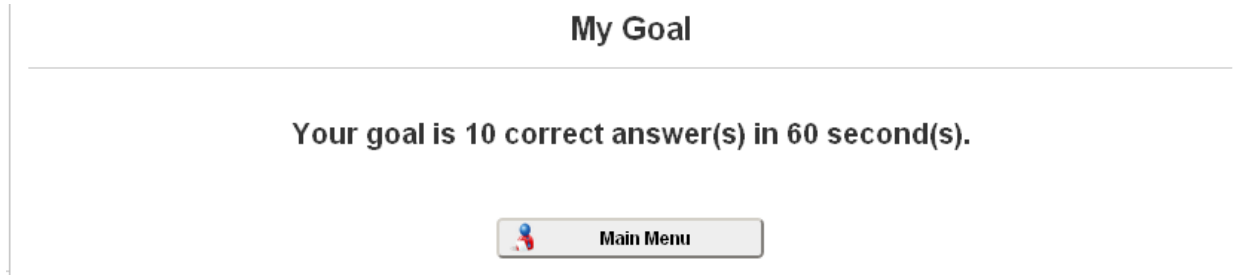
My Textual Results

No tests have been recorded. A test must be taken before results can be displayed.

 Main Menu

View My Goals

From the main menu or side menu, click this button to view your current goal. When you click the button, the following screen will appear:



This screen displays your score and time goals.

Be aware that your screen may not appear the same as this one. Your personal goal depends on how well you do on tests assigned by your teacher.

Troubleshooting and Further Assistance

If you have any questions this guide has not answered, please ask your school teacher or the person in charge of computer services for further assistance.

About MathFax

MathFax was developed by the Computer Science Department at Millsaps College in Jackson, MS, beginning in Spring 2010 and concluding in Summer 2011. The development team originally consisted of the ten students in the Software Engineering class during the Spring 2010 semester. Dr. Donald Schwartz presented the project idea to the Software Engineering class and coordinated their efforts with those of representatives from St. Anthony's Elementary School in Madison, MS, for whom the software was initially created. Final development, testing and installation were performed by Rexford Semrad III, Dr. Donald Schwartz and Nicholas R. Handelman.