

Radio Shack
Model III

Cat. No. 26-1971

SUCCESS WITH MATH™

Comprehensive, self-paced math tutorial.

Addition/Subtraction



CBS
SOFTWARE

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Success with Math™
Addition and
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User's Manual

Radio Shack
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10 9 8 7 6 5 4 3 2 1

Program Objective

The Success with Math™ series provides an environment of personalized encouragement in which to learn math. The Addition and Subtraction program designed for grade levels 1 to 4 gives comprehensive drill and practice in addition (with carrying) and in subtraction (with or without borrowing). After you load the program and select either Addition or Subtraction, the program instructs you in how to proceed.

Required Equipment

- TRS-80® Model III

Starting the Program

We recommend that you make a copy of your program diskette and use the copy for your practice sessions. Backup instructions are included at the end of this manual if you are not familiar with this process. After making your backup of the program diskette, you can use the following steps each time you begin your program.

1. Turn on all peripherals connected to the computer and then turn on the computer.
2. Insert the working copy of the diskette into Drive 0 and close the drive door.

3. Press the RESET button. The AutoLoad function is engaged. After the copyright notice, the program Main Menu is displayed. Choose either Addition or Subtraction.

Program Description

After you select either Addition or Subtraction, the program asks you to enter a name of up to 10 characters. The program then personalizes the program instructions with the name you enter.

Addition

All problems are randomly generated so that a different set of problems is presented each time the program is run. You may select from 1 to 9 problems. You may design problems from 2 to 6 rows and 1 to 6 columns. For example, if you choose 3 rows and 5 columns, you might get a problem like this:

$$\begin{array}{r} 28604 \\ 21529 \\ + 98097 \\ \hline \blacksquare \end{array}$$

The cursor (the small square) indicates the position at which you must enter information. Each problem is solved as if you were doing it on a piece of paper, one

digit at a time. Enter the sum of each column followed by the carry above the next column. You must enter the carry even if it is zero. For example:

$$\begin{array}{r}
 \blacksquare \\
 28604 \\
 21529 \\
 + 98097 \\
 \hline
 0
 \end{array}$$

Enter 0 in the first column; the cursor moves to the top of the next column for the carry.

$$\begin{array}{r}
 2 \\
 28604 \\
 21529 \\
 + 98097 \\
 \hline
 \blacksquare 0
 \end{array}$$

Enter 2 above the second column; the cursor moves to the bottom of the second column for the next digit.

The procedure continues until the problem is completed.

You may stop the addition program at any time and return to the Main Menu by pressing **SHIFT** *****.

All errors are immediately noted on the screen. You may then try a new answer. If you make a second error, the correct answer for that step is shown after which you may continue the problem.

At the end of a group of problems (from 1 to 9 depending on your previous selection), an analysis of the number and type of error, either addition or carrying, is displayed. You can then continue with more problems or leave the program.

Subtraction

All problems are randomly generated so that a different set of problems is presented each time the program is run. You may select from 1 to 9 problems. You may design problems with borrowing or without borrowing. Problems with borrowing may contain from 2 to 5 digits. For example, if you choose 5 digits with borrowing, you might get a problem like this:

$$\begin{array}{r} 83157 \\ - 18362 \\ \hline \blacksquare \end{array}$$

The cursor (the small square) indicates the position at which you must enter information. Each problem is solved as if you were doing it on a piece of paper, one digit at a time. For example:

$$\begin{array}{r} 83157 \\ - 18362 \\ \hline \blacksquare 5 \end{array}$$

Enter 5 in the first column; the cursor moves to the second column.

$$\begin{array}{r} * \\ 83157 \\ - 18362 \\ \hline 5 \end{array}$$

Press **(B)** to use the borrowing function; an asterisk appears above the digit from which you are borrowing.

$$\begin{array}{r} \blacksquare \\ 83057 \\ - 18362 \\ \hline 5 \end{array}$$

Enter 0 for the new value of the digit borrowed from; the cursor moves to the top for the amount borrowed.

$$\begin{array}{r} 1 \\ 83057 \\ - 18362 \\ \hline \blacksquare 5 \end{array}$$

Enter 1 for the amount borrowed; the cursor moves to the bottom of the second column.

$$\begin{array}{r} 1 \\ 83057 \\ - 18362 \\ \hline \blacksquare 95 \end{array}$$

Enter 9 for the answer; the cursor moves to the third column.

The procedure continues until the problem is completed.

You may stop the subtraction program at any time and return to the Main Menu by pressing **(SHIFT) (*)**.

All errors are immediately noted on the screen. You may then try a new answer. If you make a second error, the correct answer for that step is shown after which you may continue the problem.

At the end of a group of problems (from 1 to 9 depending on your selection), an analysis of the number and type of errors is displayed. You can then continue with more problems or leave the program.

Other programs in the Success with Math™ Series

Multiplication and Long Division — Grade Levels
2 to 8

Linear Equations — Grade Levels 7 to 11

Quadratic Equations — Grade Levels 9 to 12

Backup Instructions

Never use your original program diskette for daily operations. Make a backup (copy) of this diskette and use the copy for your day-to-day practice sessions. Store the original in a safe place and use it **only** for making copies. The following steps explain how to make a copy of your program diskette.

1. Turn on any peripherals that are connected to the computer and then turn on your computer.
2. Place a new, blank diskette in Drive 1, and close the drive door.
3. Place a Model III TRSDOS system diskette in Drive 0 and close the drive door.
4. Press the reset button.
5. The screen shows:

Date MM/DD/YY ?

Enter the date. For example, for March 7, 1984, type **03/07/84** **(ENTER)**

6. Press **(ENTER)** at the Time prompt.
7. When TRSDOS Ready appears, remove the TRSDOS system diskette and insert the Success with Math program diskette into Drive 0. Type:

BACKUP :0 :1 (ENTER)

8. The screen shows:

SOURCE Disk Master Password?

Type:

PASSWORD **ENTER**

You may see:

Diskette contains DATA. Use Disk or not?

or

Do you wish to RE-FORMAT the diskette?

If the questions appear, type Y **ENTER** for each question.

When the backup process is complete, the screen shows:

** Backup Complete **

9. Remove the original program diskette and store it in a safe place.

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