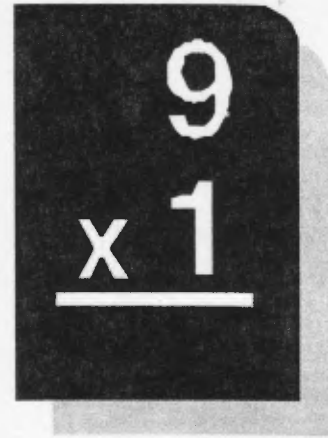


Computing Multiplication Facts

Objectives:

- Understanding the basics of a spreadsheet such as a cell, the name of each cell (A1 or C8), etc.
- Entering data into the cells on a spreadsheet
- Understanding formulas on a spreadsheet
- Entering the correct formulas on a spreadsheet starting with the equals sign



Program Needed:

Use a spreadsheet program such as *Microsoft Excel* or *AppleWorks*.

Instructions:

1. Students will launch a spreadsheet. Explain the meaning of a cell on a spreadsheet and how to name each cell, such as A1 or C8.
2. Students will be creating a formula on the computer which will calculate their multiplication facts.
3. Students will begin in cell A2 and enter the numbers 1–12 going down.
4. Students will then enter the number 1 in cell B1.
5. Have students click on B2 and explain to students that we want the computer to multiply cell A2 with cell B1. Discuss with students how a spreadsheet formula always starts with the equal sign. So in cell B2, the formula would be $=A2*B1$
6. Students will then click on B3 and enter their formula ($=A3*B1$). Notice when a student presses enter, the answer of the multiplication facts goes into the cell. Students will continue this process of entering formulas until they are finished.
7. Once they have entered all the formulas, students will click on cell B1 and change the number to 7 or 9. Once the students press enter, they can watch all of the other numbers compute. Change the number in B1 again to 57 or 83. Watch the computer calculate.

Extension Ideas:

Students enjoy watching the computer do math problems instantaneously. Students may want to make a class budget or calculate ticket sales for a musical on a spreadsheet. Students could then make graphs based on this information.



Calculating Multiplication Tables

Step 1

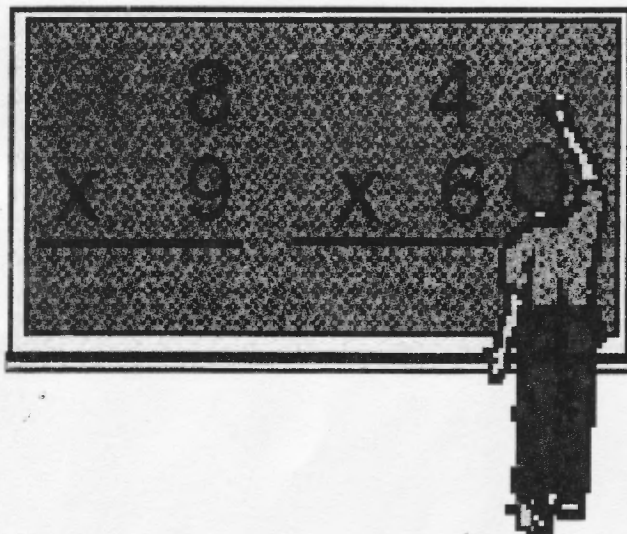
Enter numbers

	A	B	C
1		1	
2	1		
3	2		
4	3		
5	4		
6	5		
7	6		
8	7		
9	8		
10	9		
11	10		
12	11		
13	12		
14			
15			

Step 2

Enter formulas

	A	B	C
1		1	
2	1	=B1*A2	
3	2	=B1*A3	
4	3	=B1*A4	
5	4	=B1*A5	
6	5	=B1*A6	
7	6	=B1*A7	
8	7	=B1*A8	
9	8	=B1*A9	
10	9	=B1*A10	
11	10	=B1*A11	
12	11	=B1*A12	
13	12	=B1*A13	
14			
15			



After the formula is entered, press return. Then the formula will change to the answer of the multiplication problem. Once all formulas are entered, change the number in B1 to a higher number and watch all of the answers change.