

Chapter 6 / Example 1

Drawing a bar chart from a frequency table

In the opening problem, you studied the marks of 32 students who took a test with maximum mark 10. Their scores are listed below:

0, 1, 1, 2, 2, 2, 3, 3, 4, 4, 4, 5, 5, 5, 5, 5, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 8, 8, 8, 8, 9, 10.

Construct a frequency table for this data, and draw a bar chart for it.

Press **MENU** 2 **STAT** to display the List Editor screen.

Type each of the numbers from 0 to 10 in the first column.

Press **EXE** after each number to move to the next cell.

Note: If the list contains other numbers, you can clear it by pressing **F4** DEL-ALL.

	List 1	List 2	List 3	List 4
SUB				
1	0			
2	1			
3	2			
4	3			
				3
TOOL EDIT DELETE DEL-ALL INSERT >				

Press **▶** to move to the next column.

Enter the frequencies of each of the scores in the second column.

	List 1	List 2	List 3	List 4
SUB				
1	0	1		
2	1	2		
3	2	3		
4	3	2		
				2
TOOL EDIT DELETE DEL-ALL INSERT >				

Press **F6** > **F6** > **F1** GRAPH.

Press **F6**.SET

Choose Graph Type: **F6** > **F1** Hist, XList: List1 and Frequency: List2 (press **F2** type 2 and press **EXE**).

StatGraph1	
Graph Type	:Hist
XList	:List1
Frequency	:List2
Color Link	:Off
Hist Area	:Blue/L
HistBorder	:Black
1	LIST

Press **EXIT**.

Press **F1** GRAPH1.

Set Start to 0 and Width to 1 and press **EXE**.

The GDC displays a bar chart with the test score on the x-axis, and the frequency (that is, the number of students who attained each score) on the y-axis.

