

Chapter 2 / Example 5

Frequency histograms

The data shown in the table was collected for Hawkmoth caterpillars, measured to the nearest cm.

Length, l (cm)	4	5	6	7	8	9
Frequency	19	56	74	45	5	1

Use the data to draw a frequency histogram.

The intervals indicated by this table are $3.5 \leq l < 4.5$, $4.5 \leq l < 5.5$, etc.

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

Type the lower values of each of the class intervals in the first column. Type 3.5, 4.5, 5.5, ... 8.5

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	3.5			
2	4.5			
3	5.5			
4	6.5			
				6.5
	GRAPH	CALC	TEST	INTR DIST ▶

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

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

	List 1	List 2	List 3	List 4
SUB				
1	3.5	19		
2	4.5	56		
3	5.5	74		
4	6.5	45		
				45
	GRAPH	CALC	TEST	INTR DIST ▶

Press **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 3.5 and Width to 1 and press **EXE**.

Histogram Setting
Start:3.5
Width:1
Draw:[EXE]

The GDC displays a histogram of the data.

