

Chapter 7 / Example 1

Scatter diagrams

The height, and corresponding weight, of 10 students are shown in the table.

Height (cm)	182	155	174	166	158	171	179	180	168	160
Weight (kg)	90	60	84	73	68	77	84	86	74	73

Plot a scatter diagram to represent the data gathered for the 10 students.
Describe what the scatter diagram shows you about the relationship between students' height and weight.

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

Enter the heights 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	182			
2	155			
3	174			
4	166			
				166
				GRAPH CALC TEST INTR DIST

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

Enter the weights in the second column.

	List 1	List 2	List 3	List 4
SUB				
1	182	90		
2	155	60		
3	174	84		
4	166	73		
				73
				GRAPH CALC TEST INTR DIST

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

Press **F6**.SET

Choose Graph Type: **F1** Scatter, XList: List1 and YList: List2

StatGraph1	
Graph Type	:Scatter
XList	:List1
YList	:List2
Frequency	:1
Mark Type	:□
Color Link	:Off
LIST	

Press **EXIT**.

Press **F1** GRAPH1.

The GDC displays a scatter diagram of weight against height.

In general, as height increases, weight also increases.

