

a	x	23	34	17	23	29	45
	y	12	10	14	11	11	8

b	x	1	2	3	4	6
	y	6	7	8	8	16

x	4.5	2	6	4.5	3	1
y	2	5	1	3.5	3.5	6

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	4.5			
2	2			
3	6			
4	4.5			

4.5

GRAPH CALC TEST INTR DIST ►

	List 1	List 2	List 3	List 4
SUB				
1	4.5	2		
2		5		
3	6	1		
4	4.5	3.5		

3.5

GRAPH CALC TEST INTR DIST ►

```
1Var XList :List1
1Var Freq :1
2Var XList :List1
2Var YList :List2
2Var Freq :1
```

1 LIST

```
LinearReg(ax+b)
  a = -0.9558823
  b = 6.84558823
  r = -0.9558823
  r^2 = 0.91371107
  MSe = 0.36672794
y=ax+b
```

Chapter 14 / Example 1

Spearman's rank correlation coefficient

Press **EXIT**.

The ranks are

x	5	4	3	2	1
y	5	4	2.5	2.5	1

Type the x-values in the next column.

	List 1	List 2	List 3	List 4
SUB				
1	4.5	2	5	
2	2	5	4	
3	6	1	3	
4	4.5	3.5	2	
				2

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

Enter the y-values in the fourth column.

	List 1	List 2	List 3	List 4
SUB				
1	4.5	2	5	5
2	2	5	4	4
3	6	1	3	2.5
4	4.5	3.5	2	2.5
				2.5

Press **EXIT** three times.

Press **F2** CALC and **F6** SET.

Set 2Var XList to List3 and 2Var YList to List4.

To enter List3, press **F1** LIST, type 3 and press **EXE**.

Press **EXIT** twice.

```
1Var XList :List1
1Var Freq :1
2Var XList :List3
2Var YList :List4
2Var Freq :1

LIST
```

To calculate the correlation coefficient

Press **F2** CALC, **F3** REG, **F1** X, **F1** ax+b

$r = 0.975$.

```
LinearReg(ax+b)
a =0.95
b =0.15
r =0.97467943
r²=0.95
MSe=0.15833333
y=ax+b

COPY
```