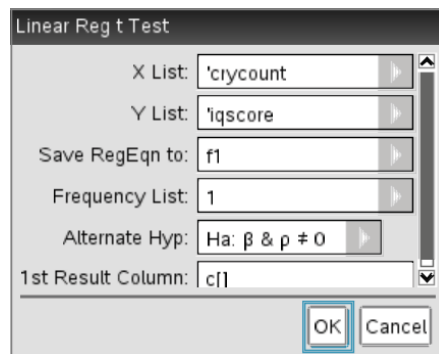


31. Significance test for slope on the calculator

Let's use the data from the crying and IQ study on page XXX to perform a significance test for the slope of the population regression line on the TI-Nspire.

1. Insert a *Lists & Spreadsheet* page, and name column A **crycount** and column B **iqscore**. Type the corresponding values into each column.
2. To do a significance test:
 - Press **menu** → *Statistics* → *Stat Tests* → *Linear Reg t Test*
 - Select **crycount** for the *X List* and **iqscore** for the *Y List*. Enter the rest of the values as shown. **tab** to **OK** and press **enter**.



	A	B	C	D
	crycount	iqscore		=LinRegT
1	10	87	Title	Linear Re..
2	12	97	Alternate...	$\beta & \rho \neq 0...$
3	9	103	RegEqn	$a+b*x$
4	16	106	t	3.06549
5	18	109	PVal	0.004105
6	15	114	df	36.
7	12	119	a	91.2683
8	20	132	b	1.4929
9	16	136	s	17.4987
10	33	159	SESlope	0.487001
11	20	90	r ²	0.207
12	16	100	r	0.454973
13	23	103	Resid	{-19.1972..
14	27	108		
D	=LinRegTTest('crycount','iqscore',1,0			