

## VassarStats Printable Report t-Test for Correlated Samples

Thu Nov 20 07:06:34 EST 2003

### Values entered:

count	$X_a$	$X_b$	$X_a - X_b$
1	89	94	-5
2	86	94	-8
3	96	101	-5
4	100	105	-5
5	94	100	-6
6	86	84	2
7	81	81	0
8	93	96	-3
9	87	90	-3
10	89	88	1
11	110	115	-5
12	95	100	-5
13	107	110	-3
14	96	102	-6

### Summary Values

Values	$X_a$	$X_b$	$X_a - X_b$
n	14	14	14
sum	1309	1360	-51
mean	93.5	97.1429	-3.6429
sum_sq	123255	133304	293
SS	863.5	1189.7143	107.2143
variance	66.4231	91.5165	8.2473
st. dev.	8.15	9.5664	2.8718

Variances and standard deviations are calculated with denominator = n-1.

	$\text{Mean}_A - \text{Mean}_B$	t	df
	-3.6429	-4.75	13
P	one-tailed	0.000191	
	two-tailed	0.000382	