

Tutorial 6 Question 1 t-test

The TTEST Procedure

Variable: strength (Breaking strength)

machine	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
New		50	71.9720	9.2502	1.3082	54.5000	91.5000
Old		50	64.2480	10.3696	1.4665	43.6000	89.8000
Diff (1-2)	Pooled		7.7240	9.8259	1.9652		
Diff (1-2)	Satterthwaite		7.7240		1.9652		

machine	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
New		71.9720	69.3431	74.6009	9.2502	7.7270	11.5270
Old		64.2480	61.3010	67.1950	10.3696	8.6621	12.9219
Diff (1-2)	Pooled	7.7240	3.8242	11.6238	9.8259	8.6219	11.4238
Diff (1-2)	Satterthwaite	7.7240	3.8235	11.6245			

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	98	3.93	0.0002
Satterthwaite	Unequal	96.748	3.93	0.0002

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	49	49	1.26	0.4268



