

Store	Con1	Con2
1	141	118
2	184	167
3	132	137
4	161	168
5	176	175
6	196	197
7	169	143
8	199	169
9	150	123
10	218	197

t-Test: Paired Two Sample for Means

	Con1
Mean	172,6
Variance	750,2666667
Observations	10
Pearson Correlation	0,863335004
Hypothesized Mean Difference	0
df	9
t Stat	2,874702125
P(T<=t) one-tail	0,009167817
t Critical one-tail	1,833112933
P(T<=t) two-tail	0,018335635
t Critical two-tail	2,262157163

Difference in Means 13,2

Because the calculated t statistic (2.8747 (1.8331) and the one-tailed p-value (0.009 hypothesis. Under the one-tailed test, the Agent 1 is more effective (i.e., produces :

<i>Con2</i>
159,4
789,3777778
10

' is greater than the critical t value
 17) is well below 0.05, we reject the null
 ere is strong statistical evidence that Filter
 significantly lower impurity) than Filter Agent