

Congruent	Incongruent
12.079	19.278
16.791	18.741
9.564	21.214
8.63	15.687
14.669	22.803
12.238	20.878
14.692	24.572
8.987	17.394
9.401	20.762
14.48	26.282
22.328	24.524
15.298	18.644
15.073	17.51
16.929	20.33
18.2	35.255
12.13	22.158
18.495	25.139
10.639	20.429
11.344	17.425
12.369	34.288
12.944	23.894
14.233	17.96
19.71	22.058
16.004	21.157

Congruent	Incongruent	Difference	Mean Diff Squared
12.079	19.278	-7.199	0.586436877
16.791	18.741	-1.95	36.17771879
9.564	21.214	-11.65	13.58076046
8.63	15.687	-7.057	0.82408571
14.669	22.803	-8.134	0.02863146
12.238	20.878	-8.64	0.455906293
14.692	24.572	-9.88	3.66802296
8.987	17.394	-8.407	0.19554821
9.401	20.762	-11.361	11.53423104
14.48	26.282	-11.802	14.72416779
22.328	24.524	-2.196	33.27895729
15.298	18.644	-3.346	21.33323646
15.073	17.51	-2.437	30.55648071
16.929	20.33	-3.401	20.82819438
18.2	35.255	-17.055	82.63188754
12.13	22.158	-10.028	4.256828627
18.495	25.139	-6.644	1.744490627
10.639	20.429	-9.79	3.33138546
11.344	17.425	-6.081	3.548671043
12.369	34.288	-21.919	194.7199302
12.944	23.894	-10.95	8.911468793
14.233	17.96	-3.727	17.95887821
19.71	22.058	-2.348	31.54834863
16.004	21.157	-5.153	7.906172377

Measure	Congruent	Incongruent	Difference
mean	14.051125	22.0159167	-7.9647917
SE	3.55935796	4.79705712	
Sample Variance (Mean Difference Sq)	23.6665409		
SE	4.86482691		
t-statistic	-8.0207069		
p-value	< 0.0001	Using t-stat and 23 DF	
t-critical	2.0687	plus / minus @ alpha level of .05 (two tailed) - 23 DF	
CI Upper	-10.01907		
CI Lower	-5.9105133		

Results

1. The results are statistically significant at alpha .05, as the t-statistic value - 8.02 is far lesser / greater than the t-critical values of +/-2.0687.