

Participant	Congruent (seconds)	Incongruent (seconds)	Difference (seconds)				V1 sample - sample mean	V2 v1 ^2
P-100	12.079	19.278	7.199		number of samples	24	-0.765791667	0.5864368772
P-101	16.791	18.741	1.95		Degrees of Freedom	# of samples - 1 23	-6.014791667	36.1777188
P-102	9.564	21.214	11.65		Standard Deviation of Samples Differences	~ v1 = sample - sample mean ~ v2 = v1 ^ 2 ~ V3 = sum of v2 for all samples ~ v4 = v3 / degrees of freedom ~ std = sqrt(v4)	4.86482691 3.685208333	13.58076046
P-103	8.63	15.687	7.057				-0.907791667	0.8240857107
P-104	14.669	22.803	8.134		Variance - Differences	average of the squared differences (v2) 22.680435	0.169208333	0.02863145996
P-105	12.238	20.878	8.64				0.675208333	0.455906293
P-106	14.692	24.572	9.88		Standard Error - Differences	standard deviation/ square root of n 0.9930286348	1.915208333	3.668022959
P-107	8.987	17.394	8.407				0.442208333	0.1955482098
P-108	9.401	20.762	11.361		T critical value	Look up in table using degrees of freedom (23) and alpha level = 0.05 1.714	3.396208333	11.53423104
P-109	14.48	26.282	11.802				3.837208333	14.72416779
P-110	22.328	24.524	2.196		T test for paired sample	~ t1 = difference of means ~ t2 = standard deviation / sqrt(number of samples) ~ t3 = v1 / v2 8.020706944	-5.768791667	33.2789573
P-111	15.298	18.644	3.346				-4.618791667	21.33323646
P-112	15.073	17.51	2.437		Cohen's D	mean difference / standard deviation 1.637219949	-5.527791667	30.55648071
P-113	16.929	20.33	3.401				-4.563791667	20.82819438
P-114	18.2	35.255	17.055		Confidence Interval	~ t2 - standard deviation /sqrt(number of samples) ~ ci1 - t critical value * t2 ~ md +/- ci1 -0.06483113089	9.090208333	82.63188754
P-115	12.13	22.158	10.028			3.339271029	2.063208333	4.256828625
P-116	18.495	25.139	6.644				-1.320791667	1.744490628
P-117	10.639	20.429	9.79				1.825208333	3.331385459
P-118	11.344	17.425	6.081				-1.883791667	3.548671045
P-119	12.369	34.288	21.919				13.95420833	194.7199302
P-120	12.944	23.894	10.95				2.985208333	8.911468791
P-121	14.233	17.96	3.727				-4.237791667	17.95887821
P-122	19.71	22.058	2.348				-5.616791667	31.54834863
P-123	16.004	21.157	5.153				-2.811791667	7.906172379
Mean	14.051125	22.01591667	7.964791667				v3 = sum of all V2	544.33044
Median	14.3565	21.0175	7.6665				v4 = v3 / degrees of freedom	23.66654087
t1 - mean differences	7.964791667							
t2	0.9930286348							
ci1	1.70205108							