set1	set2		set1	set2
16.38	16.84		16.38	16.84
19.15	15.46		19.15	15.46
19.1	14.41		19.1	14.41
19.28	18.1		12.45	18.1
19.12	16.99		19.28	16.99
18.85	15.11		19.12	15.11
18.1	15.1		18.85	15.1
19			18.1	
17.77			19	
			17.77	

OUTLIER:12.45

9	7	N=
0.9160	1.7529	VARIANCE=
18.52778	16.0014	MEAN=
		HO: both variances are equal
F=	1.913621	
Fcrit2=	5.599623	HO: is accepted=variances ar equal

d.o.f=	14
T=	4.44019
Tcrit2=	2.144787

T>Tcrit2   HO is reject

$$T = \frac{\bar{Y}_1 - \bar{Y}_2}{\sqrt{s_1^2/N_1 + s_2^2/N_2}}$$

$$v = \frac{(s_1^2/N_1 + s_2^2/N_2)^2}{(s_1^2/N_1)^2/(N_1 - 1) + (s_2^2/N_2)^2/(N_2 - 1)}$$

where N_1 and N_2 are the sample sizes, $\bar{Y}_1$ and $\bar{Y}_2$ are the sample means, and s_1^2 and s_2^2 are the sample variances.

If equal variances are assumed, then

$$T = \frac{\bar{Y}_1 - \bar{Y}_2}{s_p\sqrt{1/N_1 + 1/N_2}} \qquad s_p^2 = \frac{(N_1 - 1)s_1^2 + (N_2 - 1)s_2^2}{N_1 + N_2 - 2}$$

$$v = N_1 + N_2 - 2$$

1.274689

ted