

SAS3 Comparing Means

Comparing 2 means

	Independent	Related
Nominal	Chi-square	McNemar Test
Ordinal	Mann-Whitney Wilcoxon Rank Sums	Sign Test Wilcoxon Test
Scale Continuous	Independent sample T-test	Related sample T-test

Comparing more than Two Samples

	Independent	Related	2+ factors	Correlation
Nominal	Chi-square	Cochran Q-test		
Ordinal	Kruskal-Wallis	Friedman 2-way ANOVA	Friedman 2-way ANOVA	Spearman's Rank Correlation
Scale Continuous			2+ factor ANOVA	Pearson's Product Correlation

Independent samples t-test

```
Proc ttest;
class sex;
var ps_q30;
Run;
```

Paired samples t-test

```
Proc ttest;
Paired ps_q30*ps_q40;
Run;
```

One-Sample T-test

```
Proc ttest h0=18;
var ps_q30;
Run;
```

Analysis of Variance (ANOVA)

```
Proc glm;
class hhsz;
model ps_q30 = hhsz;
Run;
```

Npar1way analysis

```
Proc npar1way;
class dvurban;
var hhsz;
exact;
Run;
```

REMEMBER to APPLY SURVEY WEIGHT!

Add a weight statement with the weight variable to each **Procedure**

As an example:

Independent samples t-test

```
Proc ttest;
class sex;
var ps_q30;
weight wtpp;
Run;
```