

$$t = \frac{\overline{Y_2} - \overline{Y_1}}{s_y / \sqrt{N}}$$

where:

s_y = standard deviation of y

N = number of cases

$$F = \frac{\textit{Between Group Variation}}{\textit{Within Group Variation}}$$

Syntax for ANOVA

```
weight by weight.  
oneway rawMJ3 by Democrat  
    /statistics=descriptives  
    /ranges=scheffe  
    /plot means.
```

```
oneway rawMJ3 by liberal3  
    /statistics=descriptives  
    /ranges=scheffe  
    /plot means.
```