Omnibus Tests of Association

```
Model:
    %OVERALL%
    c on female (f1-f4);
    c on mothed (m1-m4);
.
.
.
Model Test:
    0=f1;
    0=f2;
    0=f3;
    0=f4;

    !0=m1;
    !0=m2;
    !0=m3;
    !0=m4;
```

Model Test will test if all statements are simultaneously true.

Note, **you have to run this code twice. One testing f1-f4 and then again, running m1-m4**

```
Wald Test of Parameter Constraints

        Value                      29.380
        Degrees of Freedom              4
        P-Value                    0.0000
```

What does this result mean about the relation between female and the latent class variable?

UC **SANTA BARBARA**

Omnibus Tests of Association

Female

```
Wald Test of Parameter Constraints

        Value                      29.380
        Degrees of Freedom              4
        P-Value                    0.0000
```

```
Model Test:
  0=f1;
  0=f2;
  0=f3;
  0=f4;

  !0=m1;
  !0=m2;
  !0=m3;
  !0=m4;
```

There is a statistically significant overall association between each of the two covariates–gender ($X2 = 29.380$, $df = 4$, $p<.001$) and mother's education ($X2 = 34.470$, $df = 4$, $p<.001$)–and the latent class variable of math deposition accounting for the other.

Mother's Education

```
Wald Test of Parameter Constraints

        Value                      34.470
        Degrees of Freedom              4
        P-Value                    0.0000
```

```
Model Test:
  !0=f1;
  !0=f2;
  !0=f3;
  !0=f4;

  0=m1;
  0=m2;
  0=m3;
  0=m4;
```

UC **SANTA BARBARA**