# Example 1

2 within subject variables (FactorWithin1 and FactorWithin2)

1 between subject variable (FactorBetween1)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | | | | | | |
| Source | | | | | Type III Sum of Squares | | df | | Mean Square | | F | | Sig. | Partial Eta Squared |
| FactorWithin1 | | Sphericity Assumed | | | **SSP** 11,791 | | 1 | | 11,791 | | ,933 | | ,343 | ,033 |
| Greenhouse-Geisser | | | 11,791 | | 1,000 | | 11,791 | | ,933 | | ,343 | ,033 |
| Huynh-Feldt | | | 11,791 | | 1,000 | | 11,791 | | ,933 | | ,343 | ,033 |
| Lower-bound | | | 11,791 | | 1,000 | | 11,791 | | ,933 | | ,343 | ,033 |
| FactorWithin1 \* FactorBetween1 | | Sphericity Assumed | | | **SSPa** 57,886 | | 2 | | 28,943 | | 2,290 | | ,121 | ,145 |
| Greenhouse-Geisser | | | 57,886 | | 2,000 | | 28,943 | | 2,290 | | ,121 | ,145 |
| Huynh-Feldt | | | 57,886 | | 2,000 | | 28,943 | | 2,290 | | ,121 | ,145 |
| Lower-bound | | | 57,886 | | 2,000 | | 28,943 | | 2,290 | | ,121 | ,145 |
| Error(FactorWithin1) | | Sphericity Assumed | | | **SSPs/a** 341,281 | | 27 | | 12,640 | |  | |  |  |
| Greenhouse-Geisser | | | 341,281 | | 27,000 | | 12,640 | |  | |  |  |
| Huynh-Feldt | | | 341,281 | | 27,000 | | 12,640 | |  | |  |  |
| Lower-bound | | | 341,281 | | 27,000 | | 12,640 | |  | |  |  |
| FactorWithin2 | | Sphericity Assumed | | | **SSQ** 5,672 | | 1 | | 5,672 | | 2,345 | | ,137 | ,080 |
| Greenhouse-Geisser | | | 5,672 | | 1,000 | | 5,672 | | 2,345 | | ,137 | ,080 |
| Huynh-Feldt | | | 5,672 | | 1,000 | | 5,672 | | 2,345 | | ,137 | ,080 |
| Lower-bound | | | 5,672 | | 1,000 | | 5,672 | | 2,345 | | ,137 | ,080 |
| FactorWithin2\* FactorBetween1 | | Sphericity Assumed | | | **SSQa** ,402 | | 2 | | ,201 | | ,083 | | ,921 | ,006 |
| Greenhouse-Geisser | | | ,402 | | 2,000 | | ,201 | | ,083 | | ,921 | ,006 |
| Huynh-Feldt | | | ,402 | | 2,000 | | ,201 | | ,083 | | ,921 | ,006 |
| Lower-bound | | | ,402 | | 2,000 | | ,201 | | ,083 | | ,921 | ,006 |
| Error(FactorWithin2) | | Sphericity Assumed | | | **SSQs/a** 65,313 | | 27 | | 2,419 | |  | |  |  |
| Greenhouse-Geisser | | | 65,313 | | 27,000 | | 2,419 | |  | |  |  |
| Huynh-Feldt | | | 65,313 | | 27,000 | | 2,419 | |  | |  |  |
| Lower-bound | | | 65,313 | | 27,000 | | 2,419 | |  | |  |  |
| FactorWithin1\* FactorWithin2 | | Sphericity Assumed | | | **SSPQ** 13,421 | | 1 | | 13,421 | | 1,953 | | ,174 | ,067 |
| Greenhouse-Geisser | | | 13,421 | | 1,000 | | 13,421 | | 1,953 | | ,174 | ,067 |
| Huynh-Feldt | | | 13,421 | | 1,000 | | 13,421 | | 1,953 | | ,174 | ,067 |
| Lower-bound | | | 13,421 | | 1,000 | | 13,421 | | 1,953 | | ,174 | ,067 |
| FactorWithin1\* FactorWithin2\* FactorBetween1 | | Sphericity Assumed | | | **SSPQa** 38,237 | | 2 | | 19,119 | | 2,782 | | ,080 | ,171 |
| Greenhouse-Geisser | | | 38,237 | | 2,000 | | 19,119 | | 2,782 | | ,080 | ,171 |
| Huynh-Feldt | | | 38,237 | | 2,000 | | 19,119 | | 2,782 | | ,080 | ,171 |
| Lower-bound | | | 38,237 | | 2,000 | | 19,119 | | 2,782 | | ,080 | ,171 |
| Error(FactorWithin1\* FactorWithin2) | | Sphericity Assumed | | | **SSPQs/a** 185,57 | | 27 | | 6,873 | |  | |  |  |
| Greenhouse-Geisser | | | 185,578 | | 27,000 | | 6,873 | |  | |  |  |
| Huynh-Feldt | | | 185,578 | | 27,000 | | 6,873 | |  | |  |  |
| Lower-bound | | | 185,578 | | 27,000 | | 6,873 | |  | |  |  |
| **Tests of Between-Subjects Effects** | | | | | | | | | | | |
| Source | Type III Sum of Squares | | df | Mean Square | | F | | Sig. | | Partial Eta Squared | |
| Intercept | **SSs/a** 283,349 | | 1 | 283,349 | | 19,489 | | ,000 | | ,419 | |
| FactorBetween1 | **SSa** 18,023 | | 2 | 9,012 | | ,620 | | ,546 | | ,044 | |
| Error | 392,543 | | 27 | 14,539 | |  | |  | |  | |

# Example 2

2 within subject variables (FactorWithin1 and FactorWithin2)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | | | | | | | | | | |
| Source | | | | | Type III Sum of Squares | | df | | Mean Square | | F | | Sig. | Partial Eta Squared |
| FactorWithin1 | | Sphericity Assumed | | | **SSP** 716 | | 1 | | 716,732 | | 1,269 | | ,269 | ,043 |
| Greenhouse-Geisser | | | 716 | | 1,000 | | 716,732 | | 1,269 | | ,269 | ,043 |
| Error(FactorWithin1) | | Sphericity Assumed | | | **SSPs/a** 15812 | | 28 | | 564,727 | |  | |  |  |
| Greenhouse-Geisser | | | 15812 | | 28,000 | | 564,727 | |  | |  |  |
| FactorWithin2 | | Sphericity Assumed | | | **SSQ** 5932 | | 3 | | 1977,496 | | 10,874 | | ,000 | ,280 |
| Greenhouse-Geisser | | | 5932 | | 1,610 | | 3685,607 | | 10,874 | | ,000 | ,280 |
| Error(FactorWithin2) | | Sphericity Assumed | | | **SSQs/a** 15275 | | 84 | | 181,856 | |  | |  |  |
| Greenhouse-Geisser | | | 15275 | | 45,070 | | 338,938 | |  | |  |  |
| FactorWithin1\* FactorWithin2 | | Sphericity Assumed | | | **SSPQ** 1292 | | 3 | | 430,717 | | 2,081 | | ,109 | ,069 |
| Greenhouse-Geisser | | | 1292 | | 1,887 | | 684,585 | | 2,081 | | ,137 | ,069 |
| Error(FactorWithin1\* FactorWithin2) | | Sphericity Assumed | | | **SSPQs/a** 17382 | | 84 | | 206,929 | |  | |  |  |
| Greenhouse-Geisser | | | 17382 | | 52,850 | | 328,895 | |  | |  |  |
| **Tests of Between-Subjects Effects** | | | | | | | | | | | |
| Source | Type III Sum of Squares | | df | Mean Square | | F | | Sig. | | Partial Eta Squared | |
| Intercept | **SSs/a** 163737 | | 1 | 163737,591 | | 273,913 | | ,000 | | ,907 | |
| Error | 16737 | | 28 | 597,772 | |  | |  | |  | |