Example 12.7 Two-Way ANOVA for Political Ideology by Party ID and Gender

Table 12.10 shows GSS data for political ideology by party ID and gender (with no restrictions on age). The table also shows the sample means and standard deviations of political ideology, based on scores (1, 2, 3, 4, 5, 6, 7).

Table 12.10: GSS Data on Political Ideology by Party Identification and Gender

		Political Ideology							Sample		Std.
Party ID	Gender	1	2	3	4	5	6	7	Size	Mean	Dev.
Democrat	Female	5	30	35	98	20	24	3	215	3.85	1.26
	Male	6	20	25	41	15	15	3	125	3.77	1.43
Independent	Female	4	17	27	83	16	17	5	169	3.95	1.24
	Male	4	16	20	59	21	23	1	144	4.04	1.30
Republican	Female	2	10	17	63	32	33	5	162	4.43	1.26
	Male	0	9	13	36	33	28	9	128	4.66	1.31

Partial Sums of Squares

The sums of squares for party, gender, and their interaction in Tables 12.11 and 12.16 are called ***partial sums of squares*** (See Exercise 60 in Chapter 11). Some software labels them as ***Type III sums of squares***. They represent the variability in Y explained by those terms, once the other terms are already in the model. This equals the difference between the SSE values for the model without those terms and the model with them.

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