

/*
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Section 001B

Title: 17.10 and 17.11 problem for HW#8

*/

/*Loading data*/

data fire_ant_killer;

input chemical location @ ;

do k = 1 to 2;

input kill_count @;

output;

end;

cards;

1 1 7.2 9.6

1 2 8.5 9.6

1 3 9.1 8.6

1 4 8.2 9.0

1 5 7.8 8.0

2 1 4.2 3.5

2 2 2.9 3.3

2 3 1.8 2.4

2 4 3.6 4.4

2 5 3.7 3.9

3 1 9.5 9.3

3 2 8.8 9.2

3 3 7.6 7.1

3 4 7.3 7.0

3 5 9.2 8.3

4 1 5.4 3.9

4 2 6.3 6.0

4 3 6.1 5.6

4 4 5.0 5.4

4 5 6.5 6.9

;

run;

quit;

proc mixed data = fire_ant_killer method = type3 ;

class chemical location; /* chemical and location are the two factors*/

model kill_count = chemical ; /*chemical is the fixed factor, kill_count is the response*/

random location location*chemical; /* location*chemical, and location are the random factors*/

run;