

Key to College Students' Seating Choices and Motivation to Achieve

Table 2 for question 3 in Exercise 28

Group	Mean	Standard deviation
A (rows 1-2)	14.18	5.88
B (rows 3-4)	10.92	6.57
C (rows 5-6)	9.65	6.46

4. The answers are shown in this table:

Table 3 for question 4 in Exercise 28

Source of variation	<i>df</i>	Sum of squares	Mean square	<i>F</i>	<i>p</i>
Between groups	2	297.581	148.790	3.798	.027 or < .05
Within groups	76	2,977.305	39.175		
Total	78	3,274.886			

5. yes, at the .05 level, 6. yes, at the .05 level, 7-9. Answers may vary.

Key to Extracurricular Activities and Dropping Out Behaviors

1. Grade 7
2. Yes, at the .01 level
3. Yes, at the .01 level
4. $p < .001$
5. Yes, because $p < .001$
6. Two
7. Choice B
8. No. The researchers did not test for differences among the means for each group across time; instead, they compared the two means for each group at each grade level.
9. The students were followed across time, in this case from grade 7 to 11.
10. While answers may vary, standard deviations indicate how variable each group was at each grade level. It is customary to report standard deviations when reporting means.
11. Degrees of freedom; they are based on the number of groups being compared and the number of subjects.
12. This nonexperimental study does not rule out other possible causal variables. For example, attitude toward school (either positive or negative) could affect both participation in extracurricular activities and the decision to drop out.