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| |  |  |  | | --- | --- | --- | |  |  |  | |  | **Results for people who do not listen to music while doing homework.** |  | |  |  | | | | | | | | | | | |
|  | |  |  |  | | --- | --- | --- | |  |  |  | |  | To test the significance of the results for this data, I started by testing the equality of the variances (the spread between the data). I ran an ANOVA Test (**An**alyzing **o**f **Va**riances). I found that the variances were conducive to use of the ANOVA test. The p-values, which determine significance (the probability that the hypothesis is false), were 0.382 and 0.843. This means that there was not enough evidence to reject my hypothesis (that the variances were equal). Therefore, the variances can be compared. After running an ANOVA test on this data, the results for this part of the experiment showed the data was not statistically significant. My hypothesis that the subjects would perform equally on the two tests, regardless of what type of music they were or were not listening to produced a p-value of 0.067. The accepted number for rejecting a hypothesis is 0.05, so the data tended toward the expected result, though was not statistically significant. On the linked page are two graphs that prove that the variances are comparable. |  | |  |  | | | | | | | | | | |
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|  | |  |  |  | | --- | --- | --- | |  |  |  | |  | [See Graph](http://docs.google.com/page22.html) |  | |  |  | | | | | | | | | | |
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|  | |  |  |  | | --- | --- | --- | |  |  |  | |  | [Home Page](http://docs.google.com/index.html) | [Abstract](http://docs.google.com/page2.html) | [Introduction](http://docs.google.com/page3.html) | [Hypothesis](http://docs.google.com/page7.html) | [Procedure](http://docs.google.com/page8.html) | [Data](http://docs.google.com/page10.html) | [Results](http://docs.google.com/page14.html) | [Conclusion](http://docs.google.com/page23.html) | [Bibliography](http://docs.google.com/page24.html) | [Acknowledgements](http://docs.google.com/page25.html) |  | |  |  | | | | | | | | | | |