

Name _____

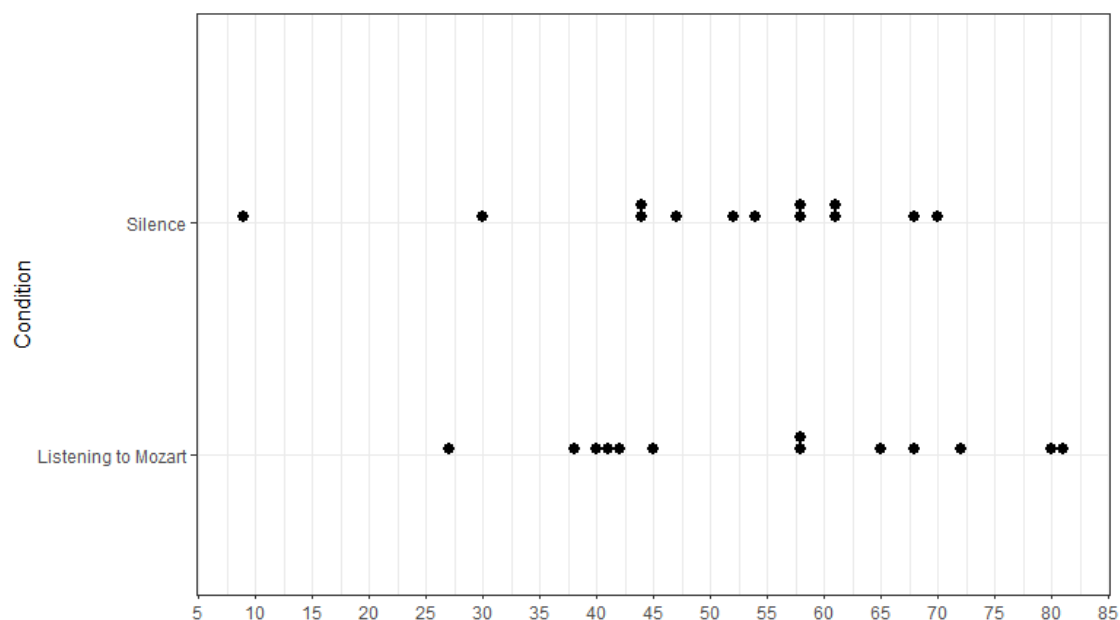
Investigation 3: How Good Is Your Memory?

Exit Ticket

An algebra teacher wanted to determine whether ninth grade algebra students scored better when they took a math test in silence or when Mozart was being played. She randomly divided the students into two groups. One group took an algebra test in silence and the other group took the same test while a Mozart symphony was quietly playing in the room. The mean and standard deviation for the Mozart group were 55% and 17.4%, respectively, and the mean and standard deviation for the Silence group were 50.5% and 16.5%, respectively.

Data from Core Math Tools: www.nctm.org/coremathtools

The distribution of test scores from both groups is shown below.



1. Interpret the mean and standard deviation of the group that listened to Mozart.
2. Using the distribution and estimates for mean and standard deviation, did the ninth grade students in the Mozart group perform better on the math test than the group of ninth graders in the silence group?