

Stat 101
Worksheet on z-scores

SAT verbal scores are known to have a mean of 500 points and a standard deviation of 100 points. ACT scores are known to have a mean of 21 points and a standard deviation of 5 points.

1. You took the SAT verbal test and received a score of 550 points. Your friend took the ACT and received a score of 30 points. Which one of you scored better on their respective test, you or your friend?
2. What would your score have needed to be on the SAT in order to have the same respective score as your friend had on the ACT?
3. What would your friend's score have needed to be on the ACT in order to have the same respective score as you had on the SAT?