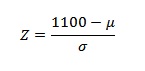
**Assignment4.9**

**Problem Statement:**

You take the SAT and score 1100. The mean score for the SAT is 1026 and the standard deviation is 209. How well did you score on the test compared to the average test taker?

**Answer:**

The question the X-value is your SAT score, 1100.  
[](http://www.statisticshowto.com/wp-content/uploads/2013/08/CALCULATE-A-Z-SCORE-1.jpg)

µ=1026

z=(1100 – 1026) / 209 = .354. This means that your score was .354 standard deviations above the mean

Z value of .354=.1368

z-score of .354 is .1368 + .5000 = **.6368** or 63.68%.