**Problem​ ​Statement​ ​1:**

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?

**Solution**

X = 1100.

μ = 1026

σ = 209

Z= X- μ/ σ

Z= 1100-1026/(209)  
 = 0.354.

z-score = 0.6368 or 63.68%.