

## Assignment 4.9

You take the SAT & 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?

Given mean = 1026

standard deviation = 209

Find the Z value

$$Z = \frac{x - \mu}{\sigma}$$

$x$  is my test score value (1100)

$\mu$  is mean (1026)

$\sigma$  is standard deviation (209)

$$Z = \frac{1100 - 1026}{209}$$

$$Z = 0.354$$

Now checking Z value for 0.354 in Z-table

0.6368 i.e. 63.68%

