

Announcements:

- All grading disputes need to be resolved before the midterm.
- Make sure to read the policies section of the midterm carefully.

1 Normal Distribution

Probability Density Function

Expected Value

Variance

68-95-99.7 Rule

In all the questions a-d, we have found what we refer to as percentiles.

- e. We know that a student scored at the 93rd percentile. What is their SAT score? If you cannot find it at first, attempt to estimate.

2 Standard Normal Distribution

Note that you will see Z scores in different contexts. Even though the standard normal distribution is always the same, the context we use it differs. During this class we have used it when we knew the mean, standard deviation, and distribution of all SAT scores. In other words, we knew about the population and used it as a distribution of population.