

Warm-up:

Professor Johnson's last midterm had scores that were approximately normally distributed with a mean of 75 and a standard deviation of 5.

1. What % of students earned higher than a 78?
2. What score would a student need to be in the top 15%?
3. If samples of 4 students were chosen at random, find the mean and standard deviation of the sampling distribution of sample means.
4. If samples of 9 students were chosen at random, what's the probability that the mean of the sample would be greater than 80?