

Bellwork Algebra 2 Wednesday, May 21, 2014

1. In a survey, the responses to the question, "How much time do you spend in the shower every day?" were normally distributed with a mean of 15 minutes and a standard deviation of 2 minutes.

- a) What interval of times contains 95% of all the responses.
- b) What % of respondents spend less than 13 minutes in the shower?
- c) If you shower for 19 minutes what % of the respondents showered longer than you?
- d) What % of respondents shower between 11 and 15 minutes?

2. At the midterm of a college class the grades are normally distributed with a mean of 68 and a standard deviation of 4.

- a) If passing is getting at least 60%, what percent of the class is passing?
- b) The professor requires students getting between one and two standard deviations below the mean to attend a study session. If there are 92 students in the class, how many will need to attend the study session?
- c) If your grade at the midterm is a 72, what percentile are you in?