Quiz 2

1. A statistics quiz is assumed to have a normal distribution with mean of 60 and a standard deviation of 20.
   a. What is the probability that you scored above 80?
   b. What is the probability that you scored less than 80?
   c. What is the probability that you scored exactly 80?
   d. What is the probability that you scored between 50 and 70?

2. Using the information above,
   a. What is the z value that corresponds to 75th percentile?
   b. What is the grade necessary for you to get into the top quarter of the class?

3. In order to be accepted into a top university, applicants must score within top 5% on the SAT exam. Given that the test has a mean of 1600 and a standard deviation of 200, what is the lowest possible score a student needs to qualify for acceptance into the university?
   a. 1930
   b. 1830
   c. 1880
   d. 1910