Workshop Questions

1. Suppose that I select a random sample of 50 teens in the United States and find that the on average they spend 3 hours a day texting with a standard deviation. of 1.2 hours. One particularly teen named Mary spends five hours a day texting. How many teens text less than Mary?

- 2. Eighty students play a mixed motive game that involves earning points. The points earned in the game are normally distributed with mean 70 and standard deviation 15.
 - (a) If the students with a score above 60 are allowed to continue to a second round. How many move on?

(b) How many are expected to get between 80 and 95 points?

(b) If the top 5% are considered to be "super rational", what is the lowest score you can get to achieve this exalted status? (Hint: this is the same as the 95th percentile)