Worksheet 5

On this worksheet, consider a large class of 500 students in a university chemistry class. The grades on the first midterm were normally distributed with mean $\mu = 78.4$ and standard deviation $\sigma = 5.9$.

1. What percentage of the students received at least 84.3 points on the exam? How many students?

2. What percentage of the students received between 72.5 and 90.2 points? How many students?
3. To be in the top 2.5% of the class, what score did a student need to earn?

4. To be in the bottom 16% of the class, what score did a student need to earn?

5. To be in the middle 68% of the class, what score did a student need to earn?