

Worksheet 6

1. A final exam has a mean of 73 with a standard deviation of 7.8. If 24 students are randomly selected, find the probability that the mean of their test scores is more than 70. Assume the scores are normally distributed.
2. Suppose that 83% of statistics students plan to sell their statistics book after the semester ends. If 48 statistics students are randomly selected, find the probability that at least 75% of them plan to sell their book.