In the population, the average score on a test of self-esteem is 50 (σ= 5). You select a random sample of 25 students who score a mean of 53. a. Shine claims that these students don’t have very high self-esteem, because they are only 3 points above the population mean.

Why can’t she make this claim merely by looking at the X?

b. What should she do?

c. What is the z-score for this sample?).

d. What conclusion do you draw about your sample?