1. Suppose a random sample of 400 is selected from a population with a standard deviation of 5. If the sample mean is 25, the 98% confidence interval to estimate the population mean is between _____.

○ 24.75 and 25.26
○ 24.49 and 25.51

○ 24.76 and 25.25

○ 24.42 and 25.58

○ 24.34 and 25.68

2. The point estimate of the population mean is_____.

○ the sample size

○ the sample proportion

○ the sample mean

○ the sample variance

3. Suppose a random sample of 50 is drawn from a population whose standard deviation is unknown. If the sample mean is 70 and the sample standard deviation is 5, the 92% confidence interval to estimate the population mean is between_____.

○ 69.01 and 70.99

○ 68.74 and 71.26

○ 69.32 and 70.68

○ 69.34 and 70.65

○ 69.52 and 70.99