STAT 319 quiz 5	Time: 20 min	1
Name:ID: -		
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Q.No.1: Past sales records indicate that sales at the store are normally distributed with a mean 12.5 and variance 156.25. The store manager has selected a random sample of 100 sales receipts. a). Find the probability of getting a sample mean between 12.25 and 13 from this population.

b). Find the 50<sup>th</sup> percentile of the sampling distribution of sample mean  $\overline{X}$ .

No.2: Past sales records indicate that sales at the store are exponentially distributed with a mean 12.5 and variance 156.25. The store manager has selected a random sample of 100 sales receipts. Find the probability of getting a sample mean between 12.25 and 13 from this population.