



**Q2.** The percentage of electronic components that fail in less than 1000 hours of continuous use is 25%. If a sample of 200 such components are randomly selected:

a. Approximate the probability that, at most 45 of them will fail in less than 1000 hours?

b. Approximate the probability that the mean number of components, those will fail in less than 1000 hours, will be at least 51.

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With My Best Wishes