**Q1: Find:**

1. **;**



**Q2: Suppose in a population of 5 women, here are the numbers of their children:**

1. **Find the population mean and variance for the variable.**
2. **Give the number of possible samples of size 3 if sampling is done with replacement.**
3. **Give the number of possible samples of size 3 if sampling is done without replacement.**

**Q3: In a sample of 350 students in KSU, the mean of the heights of students was 162 cm. Assume that heights of students is normally distributed with a variance of 25. Find the 90% confidence interval for the mean of the heights of students.**

**Best Wishes**

**Weaam**