Assignment 2

Q Why sample variance se divided by

1 Vanance of sample formula

 $s^2 = \sum_{i=1}^{n} (\infty i - 5c)^2$

In case of sample, data is landomly picked up and in case of skewed data these is a possibility that it may pick up sample data which is very very small. Because of this vaniance of population (o2) and vaniance of sample (s2) varies a lot.

So experimentation done to solve this peoplem and researcher found that for case of skewed data when variance of sample & divide by n-1 the difference between or and s² & less. They are approximately same.

Thus vaniance of sample formula is

divided by n-1.