Answer on Question #81619 – Math – Statistics and Probability

Question

1. Given a random sample from a distribution, the variance of the sample mean (V1) and the variance of the original distribution (V2) have the following relationship:

V1 < V2

V1=V2

V1>V2

V1 and V2 are not related in any way

Solution

$$V1 = \frac{V2}{\sqrt{n}}$$

So, $V1 < V2$.

Answer: $V1 < V2$.