

Answer on Question #76538 – Math – Statistics and Probability

In each part use the information given to calculate the standard error of the mean.

Question

a) mean height for a sample of $n = 71$ women is $\bar{x} = 62.4$ inches and the standard deviation is $s = 2.6$ inches.

Solution

$$SE = \frac{s}{\sqrt{n}} = \frac{2.6}{\sqrt{71}} = 0.31$$

Question

b) mean systolic blood pressure for a sample of $n = 90$ men is $\bar{x} = 122.5$, and the standard deviation is $s = 7$.

Solution

$$SE = \frac{s}{\sqrt{n}} = \frac{7}{\sqrt{90}} = 0.74$$

Question

c) mean systolic blood pressure for a sample of $n = 348$ men is $\bar{x} = 122.5$, and the standard deviation is $s = 7$.

Solution

$$SE = \frac{s}{\sqrt{n}} = \frac{7}{\sqrt{348}} = 0.375$$