

## Answer on Question #76540 – Math – Statistics and Probability

suppose a randomly selected sample of  $n = 36$  men has a mean foot length of  $\bar{x} = 27.5$  cm, and the standard deviation of the sample is 2 cm.

### Question

a) calculate the standard error of the sample mean.

### Solution

$$SE = \frac{s}{\sqrt{n}} = \frac{2}{\sqrt{36}} = 0.333$$

### Question

b) over all possible samples of  $n = 36$  from this population, the average difference between the sample mean and the population mean is about cm.

### Solution

The average difference is zero.