

shape is approximately normally distributed

the distribution mean (mean of means) is equal to population mean

its standard deviation (standard deviation of means) is equal to Population Standard Deviation/Square Root of N, also called Standard error of mean

N>=30 gives a good enough approximation to a normal distribution

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when distributions are known to be nearly normal, 8 or 10 is sufficient, when they are perfectly normal, sample of any size yields a normally distributed sampling distribution

sample mean is unbiased estimator of the population mean

sample variance S^2 €UMA(xi-mean)^2/N is not unbiased estimator of the population variance

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	the mean of all the S ² is always smaller than the value of population variance (o ²)	
$\hat{\sigma}^2$ unbia	$= \frac{\sum (X_i - \bar{X})^2}{N - 1}$ ased is Variance Estimator	
	x s unbiased is Variance Estimator	
	SPSS calls this equation VARIANCE, if we want to describe the spread of scores in sample and not to estimate variance of the population we have to multiply the outcome by (N-1)/N	