	Population	One Simple Random	All Simple Random Samples of size n
		Sample y_1, y_2, \dots, y_n of	
		size n	
Associated	Y	Y	\overline{Y}_n
Random			
Variable			The population for \overline{Y}_n is all simple random
			samples of size n from Y. The value of \overline{Y}_n for
			a particular simple random sample is the
			sample mean \overline{y} for that sample.
Associated	Y has a normal	The sample is <i>from</i> the	The distribution of \overline{Y}_n is called the <i>Sampling</i>
Distribution	distribution.	(normal) distribution of	Distribution. The theorem tells us that the
		Y.	sampling distribution is normal.
Associated	Population mean	Sample mean	Since it's a random variable, \overline{Y}_n also has a
Mean(s)	μ, also called		mean, $E(\overline{Y}_n)$. The theorem tells us that $E(\overline{Y}_n)$
	E(Y), or the	$\overline{y} = (y_1 + y_2 + + y_n)/n$	$=\mu$. (In other words, the random variables Y
	expected value		and \overline{Y}_n have the same mean – i.e., $E(\overline{Y}_n) =$
	of Y, or the	It's an estimate of μ.	$E(Y) = \mu.$
	expectation of Y		` ' '
Associated	Population	Sample standard	Sampling distribution standard deviation.
Standard	standard	deviation	The theorem tells us that the standard
Deviation	deviation σ	$S = \sqrt{\frac{1}{n-1}} \sum_{i=1}^{n} (\overline{x} - x_i)^2$	deviation of the sampling standard deviation is $\frac{\sigma}{\sqrt{n}}$.
		$\int_{1}^{1} \int_{1}^{1} \int_{1$	$\int_{-\infty}^{15} / \sqrt{n}$
		population standard	
		deviation σ	
		ueviation o	