Statistical Infe	erence
Def	
	he science of collecting, summarizing and analyzing experimental
	e the basis for inference of decisions concerning the true nature of
the population a	it Study
	ers female stewent
10 Students	at random, measure their heights X X X X X
000 118: 100 171 1	177,174,186,187,193,172,180,181
Sulto: 182, 171, 1	177, 174, 186, 187, 195, 172, 180, 181
Def	
	nple of size in from the distribution of X is a collection of n
	s, each with the same distribution as X
lotes	
u= the "true" avera	age heights?
$\bar{x} = \frac{1}{10} \sum_{i=1}^{10} x_i = 179.9$	
Det	
	probability distribution (of population) is a number assocrated with
he distribution	(and in some way descriptive of that distribution)
-x	
	and 82 - variance
ux expectation	and of home
Def	
	iome specified numerical function of observed sample values x, x.
Def	
1 statistic used	to approximate/estimate a distribution parameter D is called point
estimator for E	9 and 15 denoted 6. A numerical value obtained on a given data
3 called estimo	ute la
Det	
n estimater Ô	is an unbiased estimator of parameter of iff E[\$]=0
Picture	
1000	
	Ze Zi VS
	$\frac{\times}{Z_1}$ $\frac{1}{\rho_0}$
Det	
	random sample of size in from the distribution of X. Then X= = X.
Called sample mo	
Proposition	
Kits an lumbiased	4 estimates of u_x with $\frac{d^2}{dx} = \frac{d^2x}{dx}$, $n = number of observations.$

