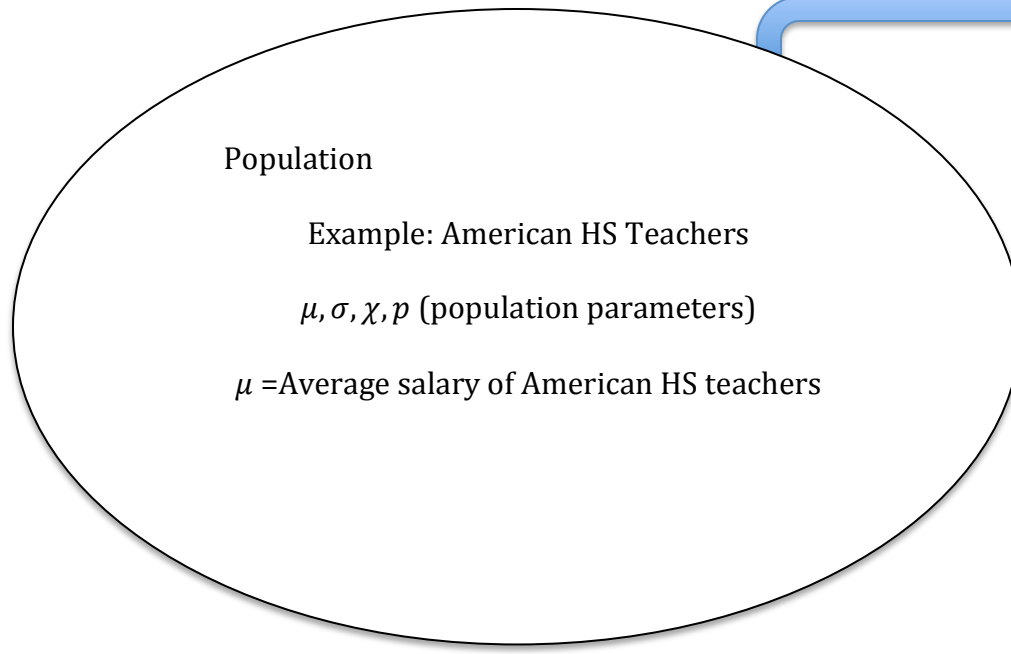


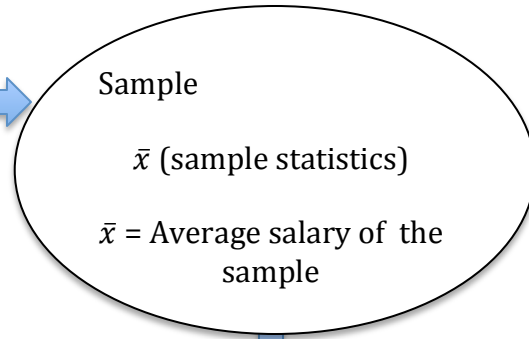
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Collecting Data and Two Branches of Statistics

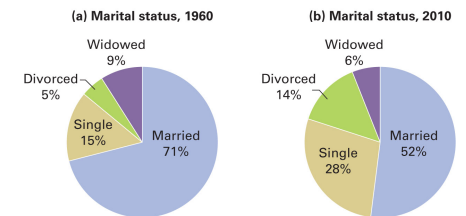
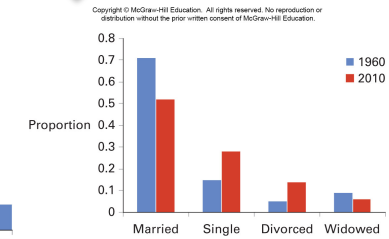
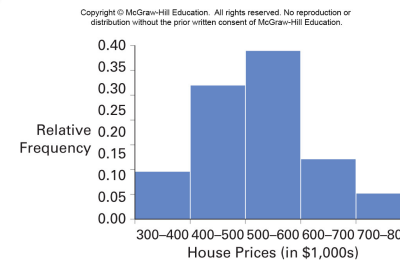
Sampling – take a representative subset of American HS teachers



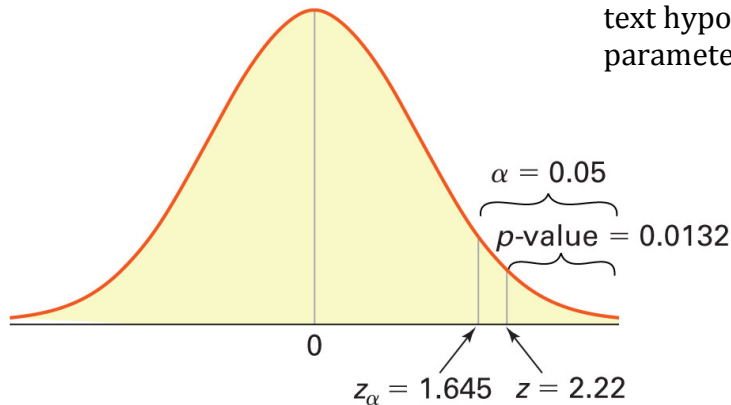
*Cost prohibitive or
*infeasible to study the entire population



Descriptive Statistics – numerical and graphical summaries of data



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Inferential Statistics – Estimate parameters and test hypotheses about parameters

TABLE 3.3 Excel Output Using Descriptive Statistics Dialog Box

Metals		Income	
Mean	24.654	Mean	8.514
Standard Error	11.7414004	Standard Error	3.4997715
Median	33.825	Median	7.335
Mode	#N/A	Mode	#N/A
Standard Deviation	37.1295681	Standard Deviation	11.067249
Sample Variance	1378.60483	Sample Variance	122.484
Kurtosis	1.668701	Kurtosis	2.3615757
Skewness	-1.0076169	Skewness	0.5602496
Range	132.48	Range	43.14
Minimum	-56.02	Minimum	-11.37
Maximum	76.46	Maximum	31.77
Sum	246.54	Sum	85.14
Count	10	Count	10