

3-1

Descriptive Statistics
Inferential Statistics

3-2 Measure of Center

Mean

Σ Sigma Sum

\bar{x} data values
 15, 16, 17, 17, 18, 18
 17, 18, 17, 15, 17, 18, 16
 Midrange
 max + min
 2

$\frac{33}{2}$
 16.5
 n number of data points
 $n=7$ Sample

N number of data points
 Population

\bar{x} mean sample

μ mean of population

$$\bar{x} = \frac{\Sigma x}{n}$$

	f	Class midpt X	$f \cdot X$
60 - 69	12	64.5	774
70 - 79	14	74.5	1043
80 - 89	11	84.5	929.5
90 - 99	1	94.5	94.5
100 - 109	1	104.5	104.5
110 - 119	0	114.5	0
120 - 129	1	124.5	124.5
	40		3070

$$\bar{X} = \frac{\sum (f \cdot X)}{\sum f}$$

$$\bar{X} = \frac{3070}{40}$$

$$\bar{X} = 76.8$$

