



Example (Q 13 page 265) A simple random sample of 5 months 89 of sales data provided the following information

Month	Units Sold ( $x_i$ )	$x_i - \bar{x}$	$(x_i - \bar{x})^2$
1	94	1	1
2	100	7	49
3	85	-8	64
4	94	1	1
5	92	-1	1
	<u>465</u>		<u>116</u>

a) Develop a point estimate of the population mean number of units sold per month

b) = = = = = standard deviation.

$$a) \bar{x} = \frac{\sum x_i}{n} = \frac{465}{5} = 93$$

$$b) s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}} = \sqrt{\frac{116}{4}} = 5.39$$