

STD-DEV-PRACTICE2.xls

	X	X-Mean	(X-Mean)^2
	18	1.111	1.235
	13	-3.889	15.123
	11	-5.889	34.679
	11	-5.889	34.679
	15	-1.889	3.568
	32	15.111	228.346
	24	7.111	50.568
	16	-0.889	0.790
	12	-4.889	23.901
SUMS	152	0.000	Variation(SS) 392.889
MEAN	16.889	A	SamDesMS 43.654
COUNT	9	B	SamDesSTD 6.607
		C	Infer~MS 49.111
		D	Infer~STD 7.008

Definitional Formula, Descriptive Statistic,
 Sample Variance

A

$$S^2 = \frac{\sum(X - \bar{X})^2}{n}$$

Definitional Formula, Descriptive Statistic,
 Sample Standard Deviation

B

$$S = \sqrt{\frac{\sum(X - \bar{X})^2}{n}}$$

C

$$s^2 = \frac{\sum(X - \bar{X})^2}{n-1}$$

D

$$s = \sqrt{\frac{\sum(X - \bar{X})^2}{n-1}}$$

Definitional formula, Inferential Statistic,
 estimate of Population Variance from
 Sample Data.

Definitional formula, Inferential Statistic,
 estimate of Population Standard Deviation
 from Sample Data.