

STD-DEV-PRACTICE1.xls

	X	X-Mean	(X-Mean)^2
	2	-5.889	34.680
	13	5.111	26.123
	11	3.111	9.679
	8	0.111	0.012
	9	1.111	1.235
	4	-3.889	15.123
	6	-1.889	3.568
	8	0.111	0.012
	10	2.111	4.457
SUMS	71	0.000	Variation(SS) 94.889
MEAN	7.889	A	SamDesMS 10.543
COUNT	9	B	SamDesSTD 3.247
		C	Infer~MS 11.861
		D	Infer~STD 3.444

Definitional Formula, Descriptive Statistic,
 Sample Variance

Definitional Formula, Descriptive Statistic,
 Sample Standard Deviation

A

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

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.