

STD-DEV-PRACTICE3.xls

X	X-Mean	(X-Mean)^2
86	7.778	60.494
88	9.778	95.605
92	13.778	189.827
51	-27.222	741.049
81	2.778	7.716
69	-9.222	85.049
97	18.778	352.605
92	13.778	189.827
48	-30.222	913.383

SUMS	704
MEAN	78.222
COUNT	9

0.000	Variation(SS)	2635.556
A	SamDesMS	292.840
B	SamDesSTD	17.113
C	Infer~MS	329.444
D	Infer~STD	18.151

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.