

	X	X-Mean	(X-Mean)^2
	6	0.200	0.040
	4	-1.800	3.240
	3	-2.800	7.840
	8	2.200	4.840
	8	2.200	4.840
SUMS	29	0.000	
MEAN	5.800		
COUNT	5		

  

	Variation(SS)	
		20.800
<b>A</b>	SamDesMS	4.160
<b>B</b>	SamDesSTD	2.040
<b>C</b>	Infer~MS	5.200
<b>D</b>	Infer~STD	2.280

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.