

## SPRIT #1

Number Set  $\{ 2.5, 3.5, 4.4, 4.4, 6.7, 8.2, 8.3, 8.7, 9.1, 9.5 \}$

### 5 Number Summary:

x Smallest = 2.5

x Median = 6.7

x Lower Quartile = 4.4

x Upper Quartile = 8.7

x Largest = 9.5

x Variance = 5.50758076635

x Standard Deviation = 2.34682354819

Mean =  $\bar{x} = \frac{\sum x_i}{N} = 72/11 = 6.54545455$

Variance =  $S^2 = \frac{\sum (x_i - \bar{x})^2}{n-1}$

$(2.5 - 72/11)^2 = 16.3557024793$

$(3.5 - 72/11)^2 = 9.27479338843$

$(4.4 - 72/11)^2 = 4.60297520661$

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$(6.7 - 72/11)^2 = 0.023884297$

$(8.2 - 72/11)^2 = 2.73752066116$

$(8.3 - 72/11)^2 = 3.07842975207$

$(8.7 - 72/11)^2 = 4.6420661157$

$(9.5 - 72/11)^2 = 6.52570247934$

$(9.1 - 72/11)^2 = 8.72933884298$

$\frac{\sum = 60.5833884298}{11}$

x Variance: 5.50758076635

x Standard Deviation =

$\sqrt{5.50758076635}$

$\rightarrow = 2.34682354819$