You survey households in your area to find the average rent they are paying. Find the standard deviation from the following data:

$1550, $1700, $900, $850, $1000, $950

Mean of the above numbers = 1550+1770+900+850+1000+950 = 1170

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Difference of each data point from the mean:-

1. 1550 - 1170 = 380

2. 1770 - 1170 = 600

3. 900 - 1170 = -270

4. 850 - 1170 = -320

5. 1000 - 1170 = -170

6. 950-1170 = -220

Squaring the equivalent values derived from the above calculation:-

1. Square of 380 = 144400

2. Square of 600 = 360000

3. Square of -270 = 72900

4. Square of -320 = 102400

5. Square of -170 = 28900

6. Square of -220 = 48400

Average of Square of the above numbers(i,e-Variance)= 144400+360000+72900+102400+28900+48400 = 126166.6666666667

6

**Standard Deviation of the above numbers(Square root of Variance) = sqrt(126166.6666666667)=355.1994744740858**