

Assignment 16.11287

Arranging the given data in form of a table

$x$	$\bar{x}$	$x - \bar{x}$	$(x - \bar{x})^2$
\$1550	\$1158.333	391.6667	153402.8
\$1700	\$1158.333	541.6667	293402.8
\$900	\$1158.333	-258.333	66736.11
\$850	\$1158.333	-308.333	95069.44
\$1000	\$1158.333	-158.333	25069.44
\$950	\$1158.333	-208.333	43402.78

Calculating  $\bar{x}$  (mean) and inserting in the

table  $\Rightarrow \frac{\sum x_i}{N} \Rightarrow \frac{\$1550 + \$1700 + \$900 + \$850 + \$1000 + \$950}{6}$

Here  $N=6$

$\Rightarrow 1158.333$

Standard deviation =  $\sqrt{\frac{\sum (x - \bar{x})^2}{N}}$

$\Rightarrow \sqrt{\frac{153402.8 + 293402.8 + 66736.11 + 95069.44 + 25069.44 + 43402.78}{6}}$

$\Rightarrow \$335.9274$

हिन्दी विश्व की महान भाषा है।

-राहुल संस्कृत्यायन