Name: _____

Date Started:_____   Date Finished:_____   Score:_____

Learning Activity Sheet
Range, Average Deviation, Variance, and
Standard Deviation of Grouped Data

Use the table headings as your guide for finding the needed measures of variability. Write the answers in the spaces provided.

Score (x)	f	Mid-Value (x)	fx	$x-\bar{x}$	$|x-\bar{x}|$	$f\,|x-\bar{x}|$
1-10	6					
11-20	12					
21-30	22					
31-40	13					
41-50	4					
	$\Sigma f =$		$\Sigma f =$			$\Sigma f\,|x-\bar{x}| =$

Score (x)	f	Mid-Value (x)	fx	$x-\bar{x}$	$(x-\bar{x})^2$	$f\,(x-\bar{x})^2$
1-10	6					
11-20	12					
21-30	22					
31-40	13					
41-50	4					
	$\Sigma f =$		$\Sigma f =$			$\Sigma f\,(x-\bar{x})^2 =$

Mean $(\bar{x}) = \dfrac{\sum fx}{\sum f} =$ _____ $\approx$ _____

Range = largest mid-value − smallest mid-value = _____ _____

= _____

Average deviation = $\dfrac{\sum f|x - \bar{x}|}{\sum f} =$ _____ $\approx$ _____

Variance: $\sigma^2 = \dfrac{\sum f(x - \bar{x})^2}{\sum f} =$ _____ $\approx$ _____

Standard deviation: $\sigma = \sqrt{\dfrac{\sum f(x - \bar{x})^2}{\sum f}} = \sqrt{\sigma^2} \approx$ _____

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