NAME:

CLASS:

CHAPTER 8: MEASURES OF DISPERSION FOR UNGROUPED DATA

SUBTOPIC 8.2 : MEASURES OF DISPERSION

Calculate the variance and standard deviation of each of the following sets of data.

1. 8, 9, 11, 12, 13,16

$$Mean, \bar{x} = \frac{8 + \square + \square + \square + \square + \square}{\square} = \square$$

$$Variance, \sigma^2 = \frac{8^2 + \square^2 + \square^2 + \square^2 + \square^2 + \square^2}{\square} - 11.5^2$$

$$= \square$$

$$Standard\ deviation, \sigma = \sqrt{6.92} = \square$$

2.

Age,x	Frequency,f	fx	x^2	fx^2
1	1	1		1
2	3			
3	8			
4	6			
5	7			
	$\sum f =$	$\sum fx =$		$\sum fx^2 =$

$$Mean, \bar{x} = \frac{\sum fx}{\sum f} = \frac{\square}{\square} = \square$$

$$Variance,\ \sigma^2 = \frac{\sum fx^2}{\sum f} - \bar{x}^2 = \frac{\square}{\square} - \square = \square$$

$$\text{Standard deviation, } \sigma = \sqrt{\frac{\sum fx^2}{\sum f} - \bar{x}^2} = \sqrt{\square} = \square$$

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