One Variable Statistical Measures

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For each set	of data determine the mea	n, median, mode, ra	nge, standard deviati	ion, and 5-number su	ımmary.
Before you st	art, look at the data for #1	and #2, which one a	appears to have a big	ger standard deviatio	on?
Look at the d	ata for #3 and #4, which or	ne appears to have a	bigger standard dev	iation?	
1. 23, 24, 25,	, 20, 25, 29, 24, 25, 30				
a) Mean:	b) Med	lian:	c) Mode:	d) R	ange:
e) 5-Number	· Summary:,,		f) Standard Dev	iation:	
Data	$x-\overline{x}$	$(x-\overline{x})^2$	$\sum (x - \overline{x})^2$	$\frac{\Sigma(x-\overline{x})^2}{n-1}$	$\sqrt{\frac{\Sigma(x-\overline{x})^2}{n-1}}$
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2. 20, 24, 10,	, 35, 25, 29, 24, 25, 33				
a) Mean:	b) Med	lian:	c) Mode:	d) R	ange:
e) 5-Number	Summary:,,		f) Standard Dev	iation:	
Data	$x-\overline{x}$	$(x-\overline{x})^2$	$\Sigma(x-\overline{x})^2$	$\frac{\Sigma(x-\overline{x})^2}{n-1}$	$\sqrt{\frac{\Sigma(x-\overline{x})^2}{n-1}}$
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3.	~	~		_	2		7		- 1
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a) Mean:	b) Median:	c) Mode:	d) Range:
e) 5-Number Summary:,		f) Standard Deviation:	

Data	$x-\overline{x}$	$(x-\overline{x})^2$	$\Sigma(x-\overline{x})^2$	$\frac{\Sigma(x-\overline{x})^2}{n-1}$	$\sqrt{\frac{\Sigma(x-\overline{x})^2}{n-1}}$

4.	1	1	3	5	5	10	5	1	14	1

a) Mean:	b) Median:	c) Mode:	d) Range:

e)	5-Number Summary:	,,,	f) Standard Deviation:
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Data	$x-\overline{x}$	$(x-\overline{x})^2$	$\Sigma(x-\overline{x})^2$	$\frac{\Sigma(x-\overline{x})^2}{n-1}$	$\sqrt{\frac{\Sigma(x-\overline{x})^2}{n-1}}$

5.	Were your predictions about which data sets had a higher spread correct?	
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