Math 20-2

Weekly Quiz: Central Tendency, Dispersion and Histograms.

Ten students	uiz. Their i	Their marks are:		
	36	65	97	70

36	65	87	70	63	93
50	58	55	88	60	95

a) Determine the following (to one decimal place if necessary)

		10 222	- 100
i.	Mean:	68.333	= 68.3

iii. Range:
$$95 - 36 = 59$$

iv. Standard Deviation:
$$17.8714 = 17.9$$

b) Explain why the standard deviation gets smaller if you drop the lowest and the highest quiz scores from the calculation.

By removing smallest and largest maks, the remaining marks are closer to the mean.

2. Thirty students wrote a quiz. Their marks are:

Mark	Frequency	
3	1	
4	5	
5	6	
6	9	
7	4	
8	5	

a) What was the mode score?

most = 6

b) Find the mean and standard deviation for these 30 guiz scores, rounded to one decimal place.

$$\bar{X} = 5.8333$$



3. Use the following exam scores to answer the next question:

68	.60	,85	-70	70	90-	_83	_48_
60	58	.63	90	32		_63′	l .
50	.95	.90	<i>A</i> 5	75	98	70	_93_
-70	-98	40	93	-80	55	-90	-88

a) Create a tally chart with an interval size of 10, beginning with a quiz score of 31. Use only the rows you require.

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	Quiz Scores	Tally	Frequency		
	31-40	1/	2	30-39	
A I	41-50	ill	3	40-49	3
V	51 - 60	101	4	50-59	3
	61 - 70	AH 111	8	60.69	6
	71 - 80		a	70 - 79	5
	81-90	HH 111	8	80 - 89	5
	91-100	411	5	90-99	9
				100-109	0

b) Draw a histogram and add a frequency polygon. Be sure to include a title, both horizontal and vertical axis labels.

DOTALL SCORES

