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	Quiz #1 – Math 5
	Summer 2008

Instructions: You may not use any human help for the completion of this quiz. Use of your homework, tests, notes, book and non-human internet support is acceptable. Good luck! This test is due at 1:00 on Monday, June 23. You have a fifteen minute grace period. After 1:15 the percent possible will go down by 20% every 15 minutes that it is late (at 1:15 you can only get an 80%, at 1:30 you can only get a 60%, at 1:45 you can only get 40%, at 2:00 a 20%, and any time after that you will get 0% credit.)

	1.	Indicate the type of sampling as systematic, random, convenience, cluster or stratified.
		a) I want to eat lunch and I need to collect information about the students of
		Gavilan College so I decide to collect information from the students in the
		cafeteria while I eat lunch
		convenience
		b) I ask every 3 rd person from my roster their opinion about Triola's book
1		systematic
5		c) A card is drawn from a well-shuffled deck
		d) The factory produced 25 lots and 5 lots are randomly chosen and
		information is collected from every item in the lot
		e) The county is divided into 15 regions and 25 people are randomly chosen from each region Stratified
	2.	Give the level of measurement as ratio, interval, nominal or ordinal.
		a) The height of the students in my class
2 1		b) The year you were born interval
4		c) Your GAV ID number
,		d) Your grade in my class Ordina
	3.	Is the following a statistic or a parameter?
		a) In a 10 year sample, the average rainfall in Morgan Hill was 1.2 in. per monthSTATISTIC

5% of the part-time teachers at Gayilan have more than 10 years

+2

b)

1+11

4. For the following ID as sampling or non-sampling error. Sumpling In a poll, the percentage of voters favorin Representative was 57%, and in a census 62% actually favored the Representative. Paul, who favors abortion, got a 10% mor responses to a question concerning opinion than his friend Joe who believes that abort under any circumstance. 5. Qualitative data can be broken into 2 types nominal ordinal while quantitative data can be broken into 2 types data can be bro	it was shown that re yes ons on abortion rtion is wrong al and oken down into
For the following sample data create a stem-and-leaf plot and questions that follow.	
em(x10) leaf(x1)21, 22, 22, 25, 32, 37, 38, 39, 39, 40, 40, 43, 44, 45, 49, 51, 53, 55,	61, 61, 62, 65, 67
Find the mean. Show your work. Label appropriately. You may use the calculator to find the sum of the x's. $ \frac{7}{125} = \frac{7}{125} = \frac{101}{23} = 43.93652174 \approx 44 $ Find the median. Show the work for the indicator function median appropriately. Find the median. Show your work. Label appropriately. $ \frac{7}{125} = \frac{7}{125} = \frac{101}{23} = 43.93652174 \approx 44 $ Find the median. Show your work. Label appropriately. $ \frac{7}{125} = \frac{7}{125} = \frac{101}{23} = 43.93652174 \approx 44 $ Find the median. Show your work. Label appropriately. $ \frac{7}{125} = \frac{7}{125} = \frac{101}{23} = 11.512 $ Find the mode(s) if a mode(s) exists. If there is no a mode appropriately.	
Based only on the position of the mean, median and mod classify this data as left skewed, right skewed or approxisymmetric. Justify your answer. Right Skewed x right of x Symmetric Symm	mately
Find the class width if you want 10 classes. $\frac{67-21}{10} = \frac{46}{10} = 4.6 \approx 5$	
Give the first class. Be sure to give the lower class limit upper class limit. Show your work in arriving at the upp	per class limit.
21+5=26 or 20+5=	25
21+5=26 or $20+5=$ $21-25$ $20-24$	

For the following frequency table answer all the questions below: 7.

	Classes (Years)	Frequency	Ret. Freq.
	?-27	3	3/24 = 0.125
8 -	27-40	5	5/24 = 0.2083
0 -	41-53	9	9/24 = 0.375 54-41 = 13
	54-66	4	4/14 = 0.166+
	67-79	3,	3/24:0.125 341-13 = 28

What is the class width? 54-41=[13]

What is the lowest, lower class limit? 28-13= 151

What is the lowest class boundary?
$$28+27 = \frac{1}{2} = 0.5$$
 $15-0.5 = 14.5$

What is the midpoint of the last class? $\frac{79+67}{2} = \frac{146}{2} = \boxed{73}$

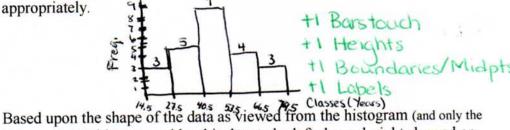
How many data points are there? 24

Create a relative frequency table for the data beside the table above. see above

Create a cumulative frequency table for the data.

Class	Cummulative Freq
Less than 29	8 3
< 41	8 17
< 54	21
< 67	24

Create a histogram for the data. Be sure to label the axes and to label the bars appropriately.



j). histogram) would you consider this data to be left skewed, right skewed or approximately symmetric. Justify your answer.

Approximately symmetric

The bulk of the data is in the middle slope down to each side.