Math 160 — Quiz 2	
Professor Busken	
Due Thursday, Feb.	14^{th}

Name:	

16. _____

For	questions	1—16.	use the	data set	listed	below.
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1	L. (Construct	a fr	requency	distribution	table.	Use 8	3 c	lasses.

- 2. Construct a relative frequency distribution table.
- 3. Construct a cumulative frequency distribution table.
- 4. Construct a histogram.
- 5. Construct a relative frequency histogram.

Determine the variance of the data set.

16.

- 6. Construct an ogive.
- 7. Construct a stem and leaf plot by using the first two leading digits as the stem.
- 8. Expand the stemplot by subdividing rows into those with leaves having digits of 0 through 4 and those with digits 5 through 9.

9.	Determine the value of \bar{x} .	9
10.	What is the median value of data set?	10
11.	Is there a mode? If so what is its value?	11
12.	What is the midrange value of data set?	12
13.	Determine the range of the data.	13
14.	What is the correct formula for standard deviation?	14
15.	Determine the standard deviation of the data set.	15

The expenses of Judy's company for last year are summarized in the following table.

Category	Amount (in millions)
Research & Development	\$15
Information Technology	11
Accounting	4
Employee Payroll	36
Total	\$66

17	. (Construct	a nie	chart	and	har	chart	to	describe	the	data
11	. '	Construct	a DIC	CHart	anu	Dai	CHart	UO	describe	ULIC	uata.

18.	Suppose Jenny earned an 88% for participation, a 92% for homework assignments,
	and a 88% for her quiz average (after dropping the lowest three). Also suppose Jamie
	had a 83% exam average. If Jamie wants an overall grade in the class of B (82.5%),
	what percentage score does she need to get on the final exam?

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1	×			

19. A simple random sample of FICO credit rating scores is listed below. As of this writing, the mean FICO score was reported to be 678. Based on these results, is a FICO score of 500 unusual? Why or why not? (Hint: p104)

19.		

20. Suppose the ages of the people in a math class are between 18 and 47. What is a reasonable estimate for the standard deviation of those ages?

- 21. A generator produces voltage amounts with a mean of 125.0 volts and a standard deviation of 0.3 volt, and the voltages have a normal distribution. Using the Empirical Rule, what is the approximate percentage of voltage amounts between
 - a.) 124.4 volts and 125.6 volts
 - **b.**) 124.1 volts and 125.9