Name: _____

Date: _____

Please fill in the definitions of each term using the glossary on pg. 522 of your textbook

Line Plot: A line that list the frequency of each value.

Mean: (Average): Add all the values together, then divide by the number of values there are.

Median: Middle of an ordered list - odd # - the middle - even # - the average of the middle 2

Mode: The most frequent Value.

outlier: Values that don't fit in your data set well.

Range: Lists the lowest and the highest value.
16-18

Example For the following data set. Create a line graph, calculate the range, mean, median and mode. Identify any outliers (if there are any.)

median 445 66478 12

Range: 4 - 12

in my lunch

mode 6 (not necessarily unique)

Line: Assignment

 How many times do you see each value?

Quiz Next Day!

Example Comparing Salaries (textbook, pg. 209)

The payrolls for three small companies are shown in the table. Figures include year-end bonuses. Each company has 15 employees. Ming wonders if the companies have similar "average" salaries.

Employee Payroll (\$) Media Focus Computer Auto Val	ue
·	ue
Advertising Rescue Sal	es
245,000 362,000 97,5	00
162,000 112,000 66,9	00
86,000 96,500 64,4	00
71,000 96,500 63,8	00
65,000 63,000 62,8	00
mode 5 61,000 62,500 63,3	00
61,000 59,200 61,5	00
57,500 59,000 58,9	00
Meclan -> 47,400 56,500 58,3	00
42,500 55,900 58,2	00
39,500 55,200 57,9	00
36,200 53,800 57,3	00
33,400 53,100 56,9	00
28,500 52,700 55,2	50
27,300 52,300 55,2	50

1. What is the best indicator of an "average" salary for each company?

$$=$$
 $\begin{bmatrix} *70886.67 \\ 70903.00 \end{bmatrix}$ (62546.67)

2. What is the range of salaries for each company?

MF
$$27300 - 245000$$
 CR $52300 - 362000$ AV $55250 - 97500$

3. Examine the data. Which companies have data that would be considered outliers?

21.

4. Determine the measures of central tendency:

	Media Focus Advertising	Computer Rescue	Auto Value Sales
Mean	T0.886F	86013,33	62 546.67
Median	57,500	59,000	58,900
Mode	le 1,000	hone	55 250

5. Which measure of central tendency is most affected by the outliers?

1°

元

mode

The mean is the most commonly affected

6. Create a line plot for each of the three companies. Look for outliers, measures of central tendency, and the range on your line plots. Which of these features is most easily visible?

EW.

7. Which measure of central tendency best illustrates the "average" salary for each company? Why?

The mean is the average!