Tutorial Request Form (TRF)
Pre-Work Inquiry (Before the Tutorial)

(B)

Subject: Math 7
Standard/Essential Qucs.: What is the diff. between mean, median and mode?
Name: Maria Velasco
AVID Period: 3°
Date: 2/12/11

Pre-work Inquiry	Resources	Collaborative Inquiry	Cornell Note-Taking	Reflection	Total
/12	/1	/2	/3	/7	/25

Initial Question: **Source, page # & problem #:** txt. bk. p. 145 #2

What are the mean, median, and mode of my math tests?
98, 75, 83, 59, 75, 90, 65, 85

/1

Key academic vocabulary/definition associated with topic/question:

1. mean - average. sum of a set of numbers divided by how many numbers are in the set
2. median - the middle number of a collection of numbers arranged in order
3. mode - the number occurring most frequently in a set of numbers /2

What I Know about My Question:

1. My mode is 75 because I received two scores of 75 vs. just one
2. My mean is 78.75 = 79% because I added all my tests scores (630) and divided by 8. This equaled 78.75 which I rounded up to 79%.

/2

Critical Thinking about Initial Question:

Test scores for median:
98, 75, 83, 59, 75, 90, 65, 85

59, 65, (75, 75,) 83, 85, 90, 98

same middle #'s

↓

?

/3

Identify General Process and Steps:

1. List test scores
2. Put test scores in order
3. For even amount, find the average of the two middle numbers

/2

Question from Point of Confusion:

How do I find the median of a even collection of numbers when one of the middle numbers is repeated?

/2

Collaborative Inquiry (During the Tutorial)	
Notes from Inquiry: (Completed by tutor)	**Continue to Identify Process and Steps:**

Reflection (In class--After the Tutorial)

My point of confusion was …_____

_____

_____

_____ **/1**

What I learned about my point of confusion is…_____

_____

_____

_____ **/1**

I gained a new/ greater understanding of my point of confusion by/when…_____

_____

_____

_____ **/2**

This learning is important because it connects to my previous learning/experience, myself, and/or my world (circle one), in the following way…_____

_____

_____

_____ **/2**

What I found meaningful about today tutorial session is… _____

_____

_____ **/1**

Topic: Section 12.6 Box and Whisker Plots & Working with Data

Name: Maria Velasco (B)
Class: Math
Period: 3
Date: 2/12/11

Questions/Main Ideas:	Notes:
(1) What is the mean?	Mean: The sum of a set of numbers divided by number of numbers in a set (the average)
(2) What is the median?	Median: a) odd collection of numbers - arranged in order, it is the middle number b) even collection of numbers - arranged in order, it is the average of the two middle numbers
(3) What is the mode?	Mode: the number that occurs most frequently in a collection of numbers
(4) What is a quartile?	Quartile: the values in a collection of numbers that separate data into 4 equal parts
(5) What are quarters?	Quarters: When data is divided into equal fourths a quarter contains 1/4 of all data points They are not necessarily all the same length
(6) How do I find quartiles?	(1) arrange data points from least to greatest (2) partition data into 4 equal parts (or quarters) (3) Create a box-and-whisker plot to see a graphic illustration of the information

Summary: (6, 5, 4) Data (2) quartiles (3) order (4) partition (5) box & whisker

When working with [data], you can [order] the data from smallest to largest, find the [quartiles] by [partitioning] the data into 4 quarters and create a graphic representation of the data by drawing a [box and whisker plot].

Topic: _____

Name: _____

Class: _____

Period: pg 2 Cont.

Date: _____

QUESTIONS/MAIN IDEAS:	NOTES:
(7) Example 1: Find quartiles and create a box-and-whisker plot.	Step 1: Order 6, 6.5, 7, 7, 7, 7, 7.5, 8, 8.5, 9, 9, 9.5, 10, 10, 10 10.5, 11, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14, 16
*27 students created a record of the number of hours they spent on homework in a week.	Step 2: Partition 1st quarter: 6, 6.5, 7, 7, 7, 7 2nd quarter: 7.5, 8, 8.5, 9, 9, 9.5, 10 3rd quarter: 10, 10, 10.5, 11, 11, 11.5, 11.5 4th quarter: 11.5, 12, 12.5, 13, 13.5, 14, 14, 16
Here are the results: 9.5, 14, 7, 7.5, 12, 8.5, 11.5, 10, 7, 16, 10, 11, 9, 11.5, 8, 14, 10.5, 12.5, 7, 13, 13.5, 10, 10.5, 7, 11, 9, 16	lower quarter — 2nd quarter + 3rd quarter — 4th quarter ← 5 - 6 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 → 16 = lower extreme 10 = median 17 = upper extreme

SUMMARY: