A WORK AND WORK IN DENCH	Name	Per:
WORK AND WORK IN PENCIL	Due Date	e. February 15 / February 19
, represent and analyze the data acco	ording to the instruction	ions for the following test scores.
<u>A Test Scores:</u> 51, 45, 45, 45, 33	, 51, 48, 36, 48, 5	1, 51, 48, 42, 45, 52, 29, 39, 51
the class of test scores from least to	greatest:	
Scores:		
the three measures of central tendence	ey from the data	
Mean:	• Median:	• Mode:
the five number summary for the data	a	
vinimum o	Median:	• Maximum:
01:0	Q3:	
e a HISTOGRAM with intervals		
29.9, 30 – 39.9, 40 – 49.9 etc.		
		L
	aprim It   a WORK AND WORK IN PENCIL   , represent and analyze the data according to the data according to the data according to the class of test scores from least to accord the class of test scores from least to accord the three measures of central tendence and the five number summary for the data accord to the data accord to the five number summary for the data accord to the antipatter tendence and the accord test scores according to the data accord to the data	april It Ivalue

e. Create a DOT PLOT

f. Using your five number summary, create a BOX PLOT

## հայկանիսովուսիսով

## համասիսունունունուն

2. List at least one advantage and at least one disadvantage to each type of representation.

	Advantage	Disadvantage
a. Dot Plot		
b. Histogram		
c. Box and Whisker (Box Plot)		

3. Kara had 85, 83, 92, 88, and 69 on her first five math tests. She knows that she needs an average (mean) of 85 to get a B. What score must she get on her last test to get a B?

- 4. Ms. Packer teaches 4 sections of Secondary Math I. Her overall mean on the last test was 87. If three of the class means were 92, 88, and 80, what was the approximate mean for the fourth class?
- 5. The following data was observed by a city planner. The city planner recorded the number of cars that went through an intersection during a given hour 4, 5, 2, 6, 7, 8, 5, 6, 7, 2, 3, 6, 4, 4. a. Find the mean:
  - c. Create a histogram with 4 intervals: 2 - 3, 4 - 5, 6 - 7, 8 - 9
- b. Find the mode:
- d. Create a dot plot



- f. Create a box and whisker plot
- 6. A gym teacher at a middle school collected this data about the number of pull-ups by seventh graders in gym class 2, 3, 4, 3, 2, 5, 5, 6, 6, 6, 9, 4, 10, 3, 2, 1, 9
  - a. Find the mean:
  - c. Create a histogram (intervals 0-2, 3-5, 6-8 etc).
  - e. Find the five number summary
    - Minimum: •
    - Q1:
    - Median: •
    - O3:
    - Maximum:
- 7. Jake believes that outliers have a greater impact on the mean. Andrew believes outliers have a greater impact on the median. The data for the number of students in classes at Vista is: {42, 32, 44, 46, 38, 39, 41, 14, 35}.
  - a. Find the **mean** number of students? b. Find the **median** number of students?
  - c. Identify the **outlier**?
  - d. Find the **mean** without the outlier? e. Find the **median** without the outlier?
  - f. Do outliers have a greater impact on mean or median? \_\_\_\_\_ Explain:
  - g. E.C. Mathematically prove if it is an outlier or not (IQR\*1.5). See your study guide for details O.

- e. Write the five number summary:
  - Minimum:
  - 01:
  - Median:
  - Q3:
  - Maximum:

- b. Find the mode:
- d. Create a Dot Plot
  - 0 1 2 3 4 5 6 7 8 9 10
- f. Create a Box and Whisker (Box Plot)
  - 0 1 2 3 4 5 6 7 8 9 10