Name _____ Date _____

Comparing Two Data Sets - Guided Lesson

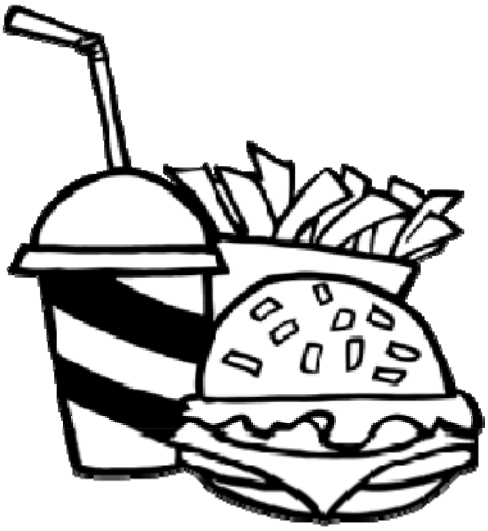
Complete the following problems:

1) The frequency table shows the number of burgers eaten in a year by a random sample of college and high school students. Which of the following statements are true?

College		High school
6	0	0
7	1	2
5	2	7
11	3	6
1	4	9
2	5	5

I. Six college students did not eat burger.
II. The college median is equal to the high school median.
III. The mean is greater than the median in both groups.
(A) I only (B) II only (C) III only (D) I and II (E) II and III

2) Alan is trying to determine that fast food consumption results in people being heavy. People from house 1 were eating fast food regularly. People from house 2 did not eat fast food. Based on the data, is there any reason to believe that people from house 1 weighed more? (Weight is in kg)



Home 1:

30, 48, 55, 34, 41, 47, 59, 50, 39, 35, 85, 95, 75, 64, 78, 90

Home 2:

74, 53, 94, 82, 77, 82, 84, 47, 55, 80, 75, 90, 78, 62, 71, 79

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3) The table shows the number of pen used in a month by a random sample of students from class a and class b. Which of the following statements are true?

Class A		Class B
2	0	0
18	1	17
7	2	6
15	3	11
2	4	5
1	5	6

I. Two class A students did not use any pens during this month.
II. The class B median is high compared to the class A median.
III. The mean is greater than the median in both groups.
(A) I only (B) II only (C) III only (D) I and II (E) II and III