Name: _____

Candy Data Group Work Packet

You will be using the nutritional information for several different types of candies during this project. You will be presenting the information in many different ways. You need to be careful and precise when recording information.

1. Everyone in your group should have the nutritional guide packet. Individually you need to select your three favorite candies. It is okay for people to have the same favorites. Record the following information in the table.

Student Name	Calories in Candy #1	Calories in Candy #2	Calories in Candy #3

2. With the data you just gathered, make the calculations below for your candies. **Show your work.** (pg. 875)

   Mean: _____

   Median: _____

   Mode: _____

   Range: _____

   Mean Absolute Deviation: _____

   Outlier(s): _____

Name: _____

3. Everyone in your group should have the nutritional guide packet. Individually you need to select your three favorite candies. They may be the same or different from number one. Record the following information in the table.

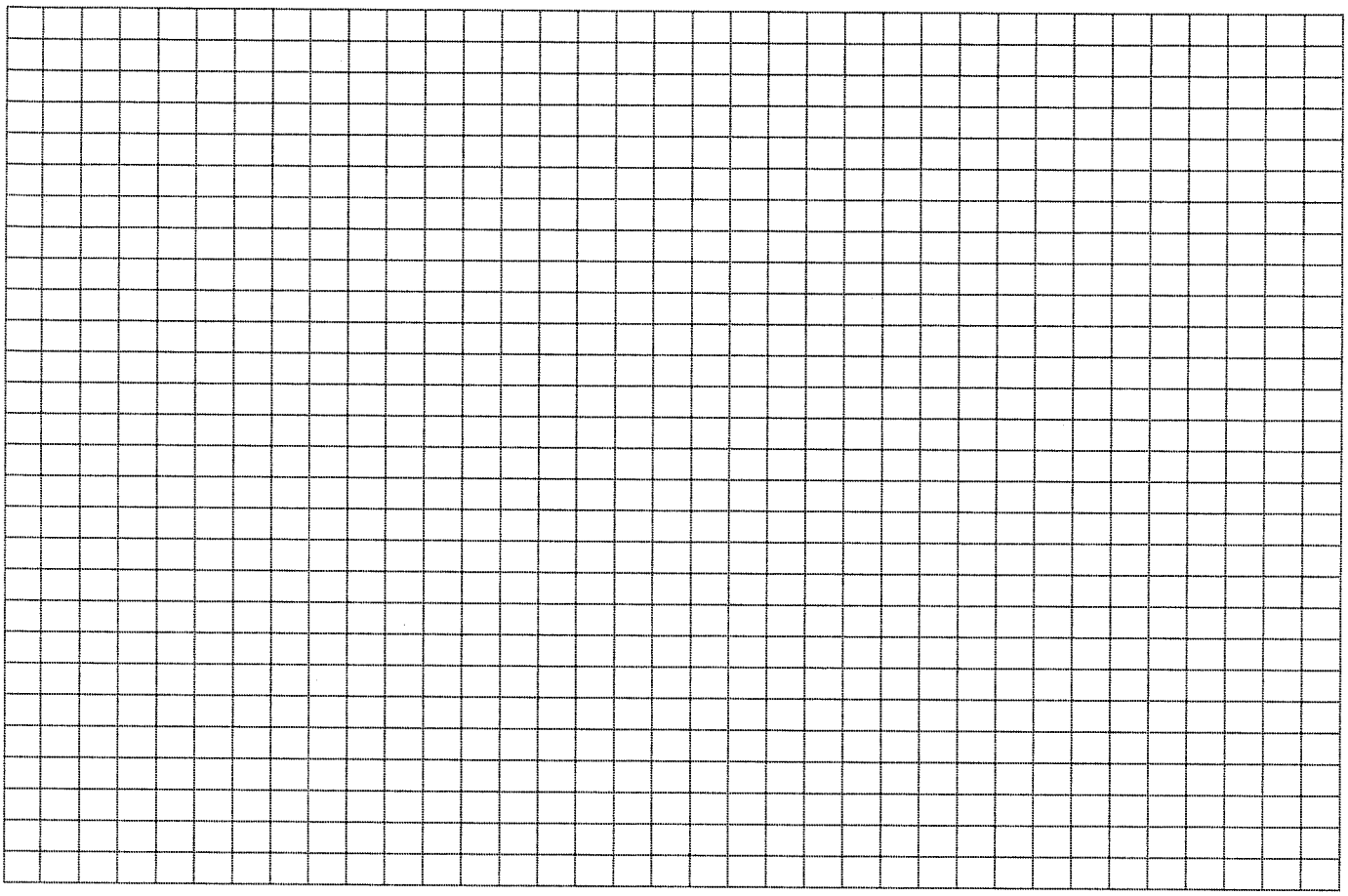
Student Name	Fat Grams in Candy #1	Fat Grams in Candy #2	Fat Grams in Candy #3

4. Include your data on the class frequency table located at the front of the class. The following intervals will be used: 0-2, 3-5, 6-8, 9-11, 12-14, 15-17, and 18-20. You will not be able to move onto #5 until all data is recorded on the board from all groups.

Small Group Frequency Table	**Class Frequency Table**

Name: _____

5. Using the class frequency table make a histogram. Use the space below. (pg. 882)



Name: _____

6. Using 10 different candies fill in the following table. Decide as a group what favorites to include. Use this data to complete number 7.

Name of Candy	Fat	Carbohydrate	Calories
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

7. Using the above information, make three different box-and-whisker plots. One using **calories**, one using **fat**, and one using **carbohydrates**. (pg. 887 book resource)

"Fat" Big Five

Show your work here

Median: _____

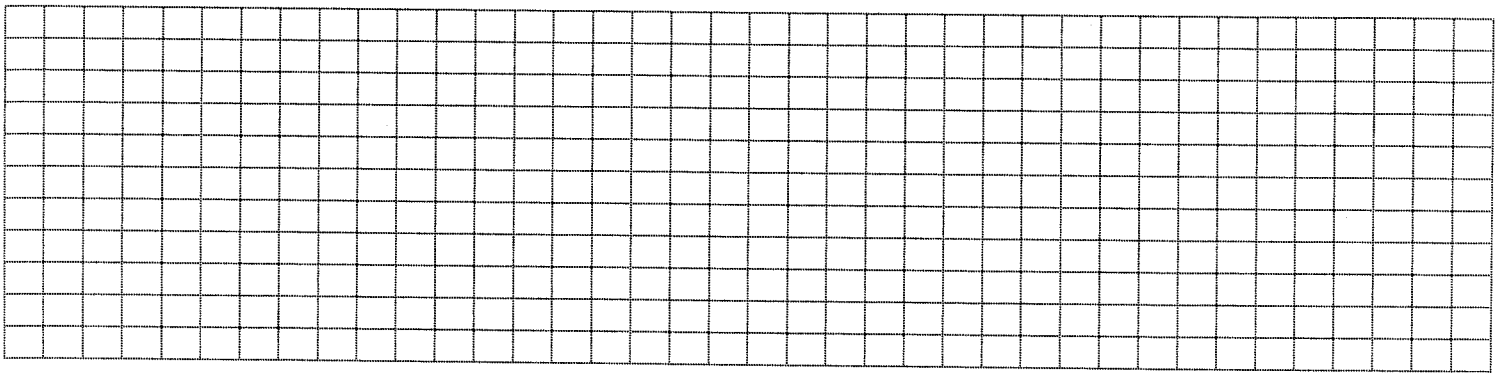
Lower Quartile: _____

Upper Quartile: _____

Lower Extreme: _____

Upper Extreme: _____

"Fat" Box-and-Whisker



Name: _____

"Calories" Big Five

Show your work here

Median: _____

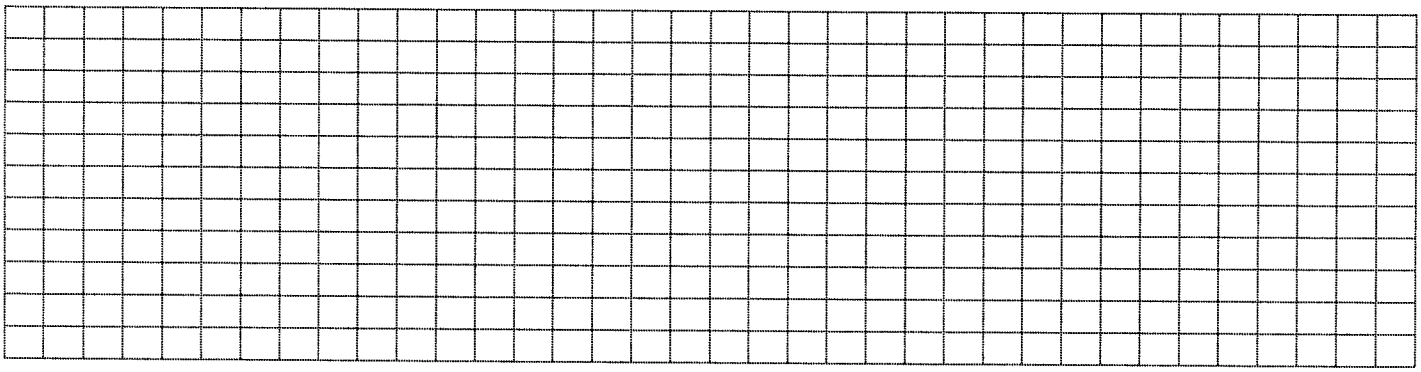
Lower Quartile: _____

Upper Quartile: _____

Lower Extreme: _____

Upper Extreme: _____

"Calories" Box-and-Whisker



"Carbohydrate" Big Five

Show your work here

Median: _____

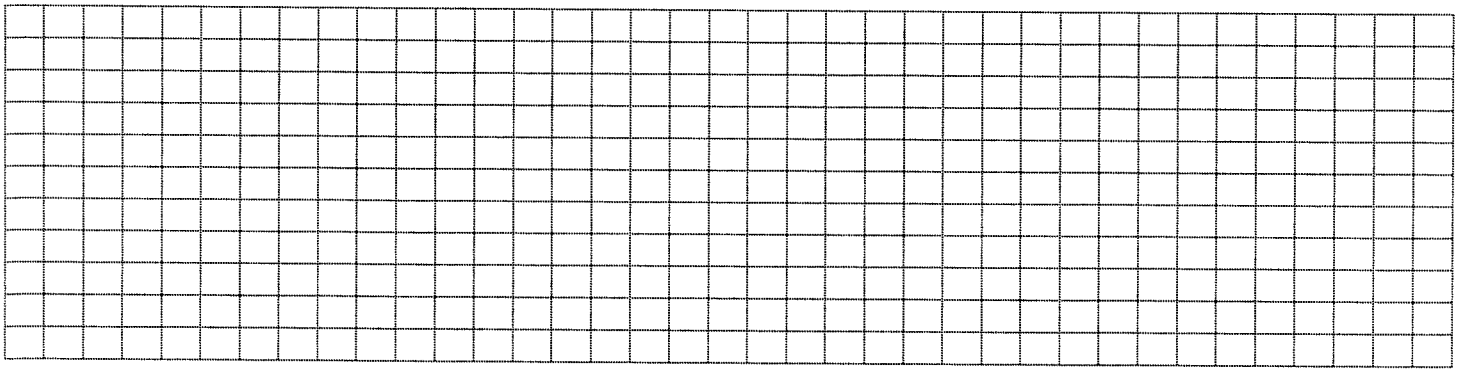
Lower Quartile: _____

Upper Quartile: _____

Lower Extreme: _____

Upper Extreme: _____

"Carbohydrate" Box-and-Whisker

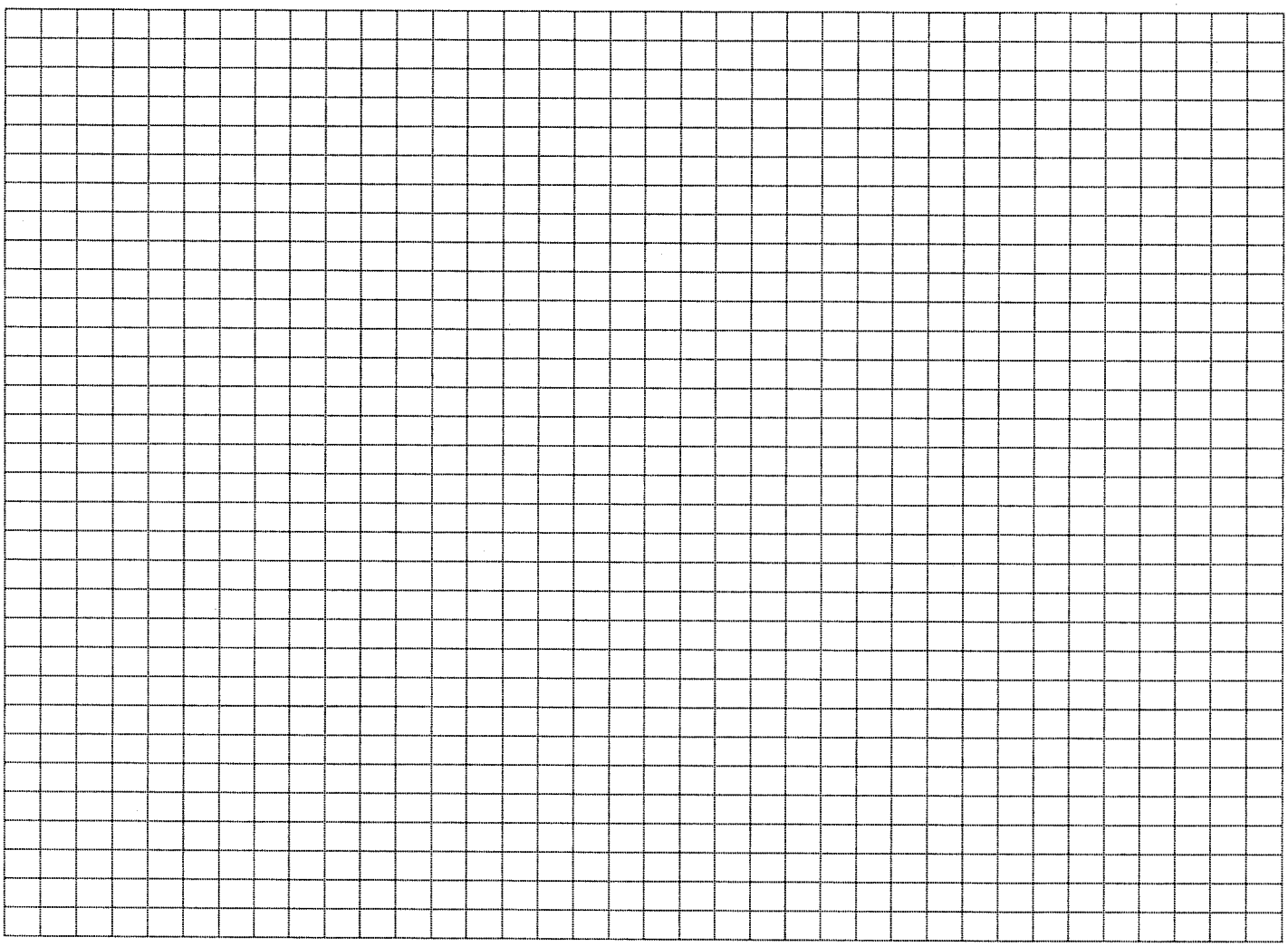


Name: _____

8. Using 10 different candies, fill in the following data table.

Candy										
Calories										
Fat										

9. Using the information above to make a scatter plot. Put "Fat" on the x-axis and "Calories" on the y-axis. Use the space below. (pg. 325 book resource)



10. Can you make a conjecture about how calories are affected by the amount of fat in the candy? If so, write a conjecture.