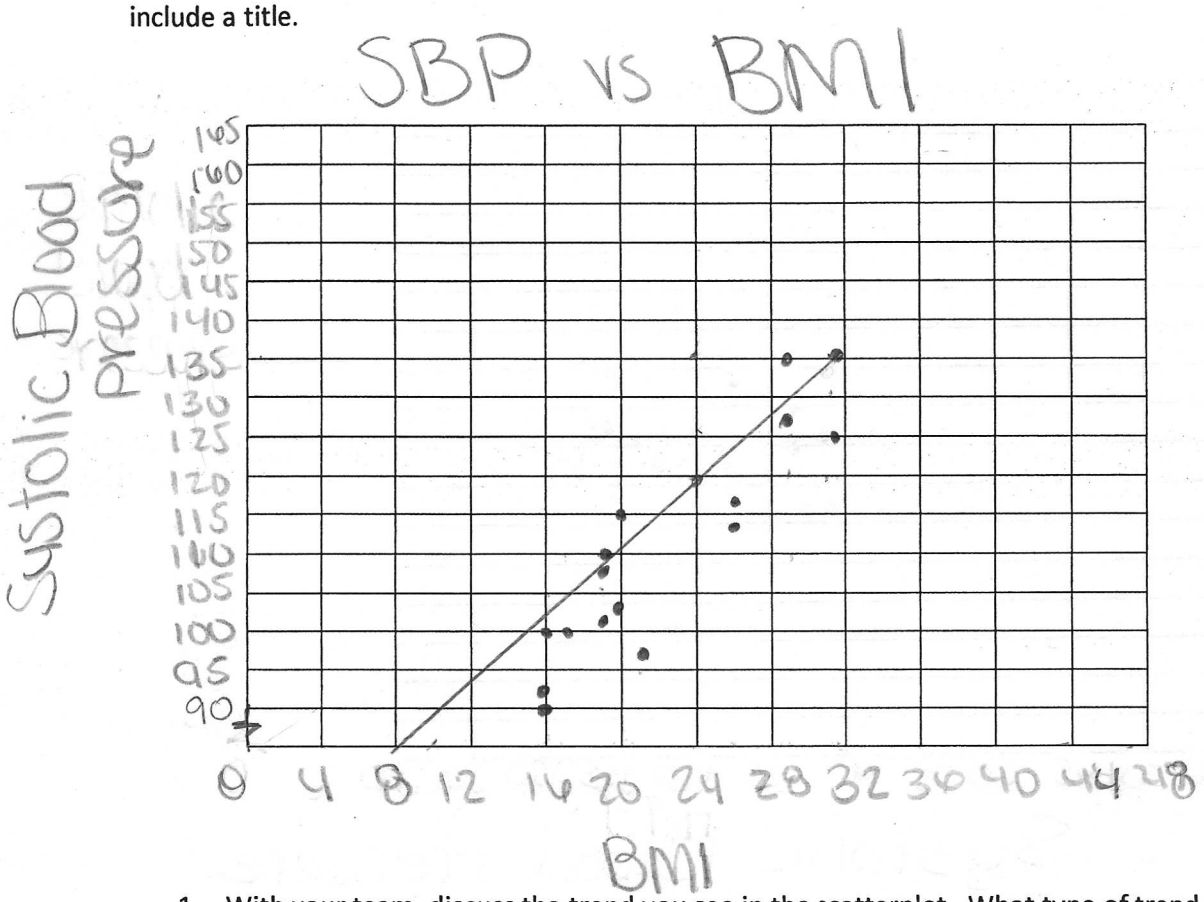
Sensors and Scatterplots: WORKSHEET 1 Name Emily

A. Question: Is there a relationship between systolic blood pressure and BMI?

Hypothesis:

I think the higher the systolic Blood Pressure goes the BMI goes high. (positive trend)

Use the data from the Class Data Sheet to create a scatterplot. Make sure you label your axes and include a title.



1. With your team, discuss the trend you see in the scatterplot. What type of trend do you observe in the scatterplot?

positive

2. Write an explanation of the relationship between systolic blood pressure and BMI.

The higher the SBP the higher the BMI goes.

3. Using a ruler, draw a line of best fit on your scatterplot. Using the line of best fit, predict the value of systolic blood pressure a person would have if their BMI value is 24. What would the BMI value be if the person's systolic blood pressure is 135?

120 & 30.

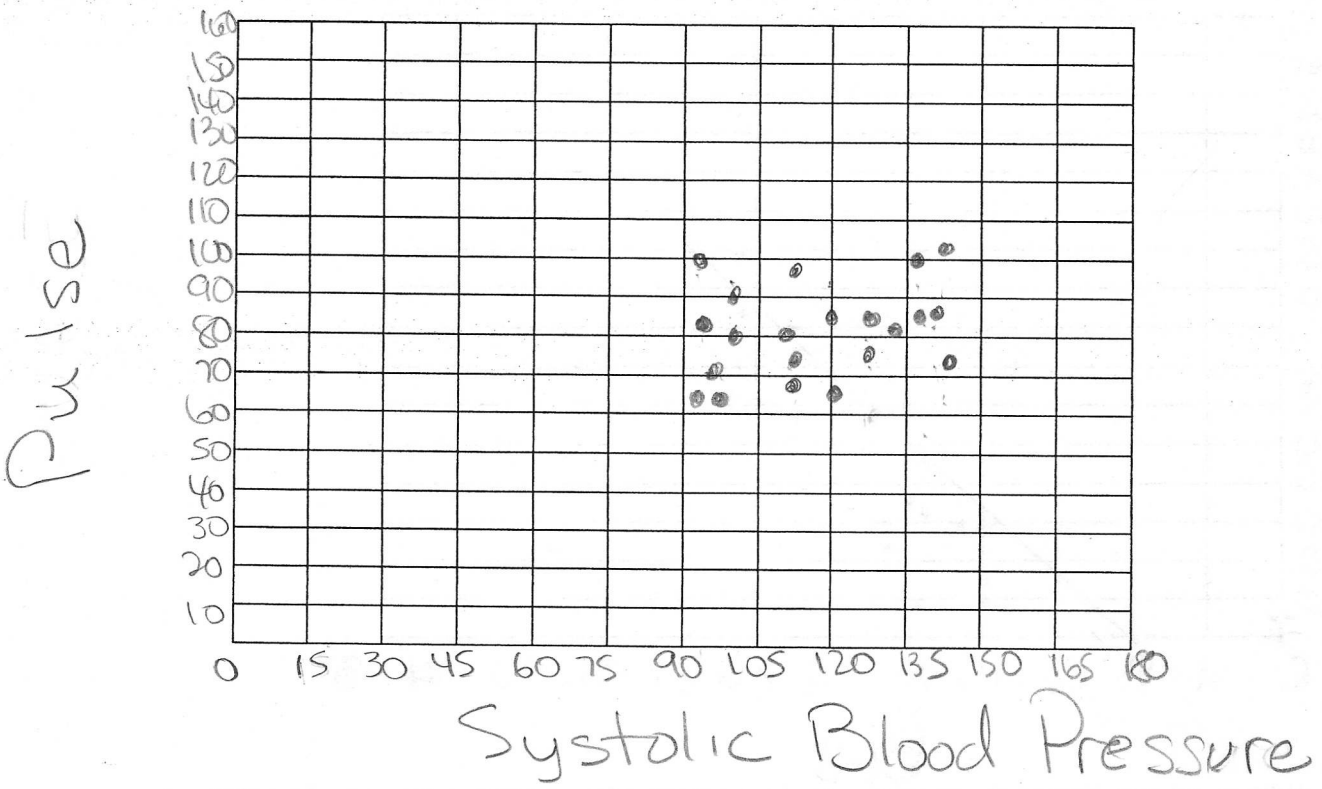
Sensors and Scatterplots: WORKSHEET 1 continued Name_____

B. Question: Is there a relationship between pulse rate and systolic blood pressure?

Hypothesis:

I think it will be a negative trend.

Use the data from the Class Data Sheet to create a scatterplot. Make sure you label your axes and include a title.



1. With your team, discuss the trend you see in the scatterplot. What type of trend do you observe in the scatterplot?

There is no trend.

2. Write an explanation of the relationship between pulse rate and systolic blood pressure.

There is no relationship between pulse rate and blood pressure.