**Sensors and Scatterplots: ASSESSMENT**   Name _Liliana_

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There are several other relationships that can be analyzed from the data we collected. Using the class data sheet, you will select two different variables to analyze.

1. What two variables are you going to analyze?

    BMI and Pulse Rate

2. Hypothesize what you believe the relationship between the two variables will be.

    I believe that the higher the BMI the higher the Pulse Rate.

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

    BMI and Pulse Rate

Pulse Rate

BMI
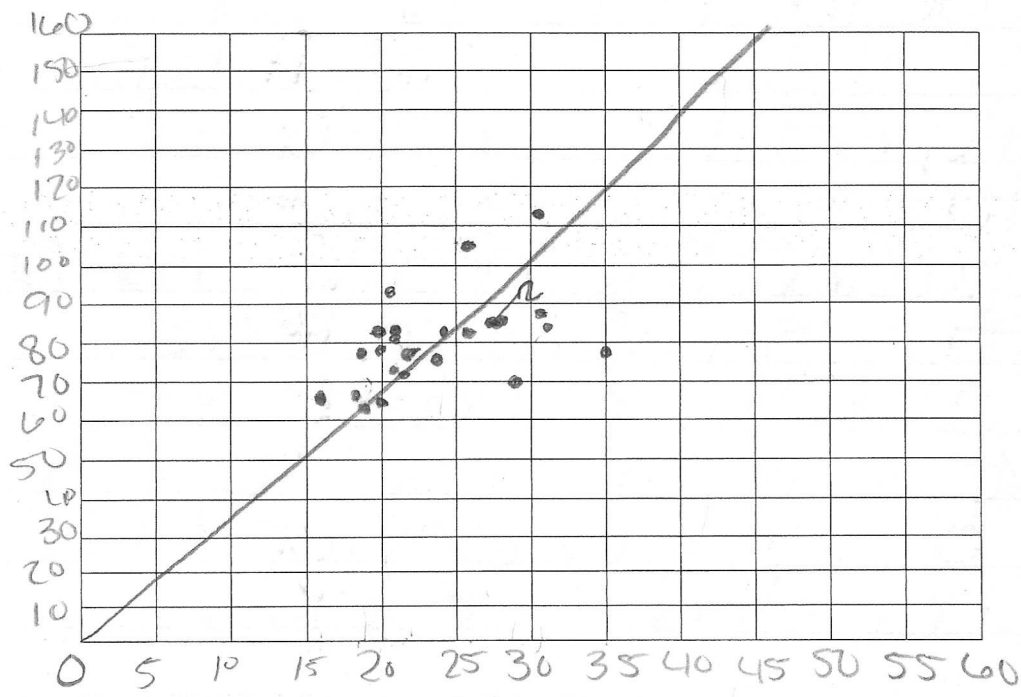
4. What type of trend do you observe in the scatterplot?

    positive trend.

5. Write an explanation of the relationship between the variables you selected.

    The higher the BMI the higher the pluse rate gets.

6. Using a ruler, draw a line of best fit on the scatterplot. Write a prediction question about your scatterplot that can be answered using the line of best fit. If you cannot draw a line of best fit, explain why.

    Q: If BMI was 30, what would be the Pulse Rate?

    A: 100 pulsrate

    Q: If puserate was 150 whatwould be the BMI?

A=43

IB Unit 5 Reflection:

Answer in complete sentences, minimum ½ of a page.

Explain why you selected the two variables to analyze. Does the trend that you observed in this scatterplot make sense? Think about the various scatterplots that you analyzed during this investigation like BMI versus systolic blood pressure and BMI versus pulse rate. How do you think looking at these relationships will help you make better health decisions?

I picked BMI and pulse rate because it was easy and I wanted to see the relationship they had together. The trend is correct because the higher BMI the higher the pulse rate. It will defintly get me scared for the fact that you can die from Obesuty and the average number of teens shows that there are alot. It can make me realize that you have to take care of your weight, or it can impact your life alot.

Very good!