

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Sensors and Scatterplots Activity – Creating and Analyzing Scatterplots Worksheet

### Question 1

Is there a relationship between systolic blood pressure and BMI?

### Hypothesis

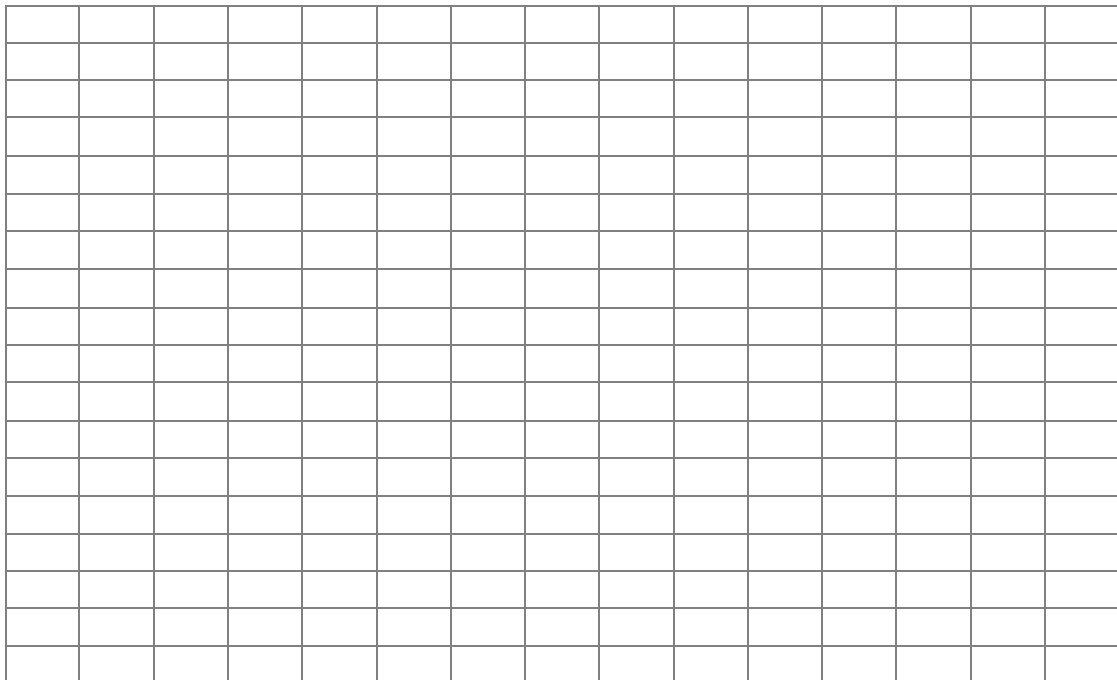
---

---

---

### Scatterplot 1 Creation

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



### Scatterplot 1 Data Analysis

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

---

---

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

---

---

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?

---

---

**Question 2**

Is there a relationship between pulse rate and systolic blood pressure?

**Hypothesis**

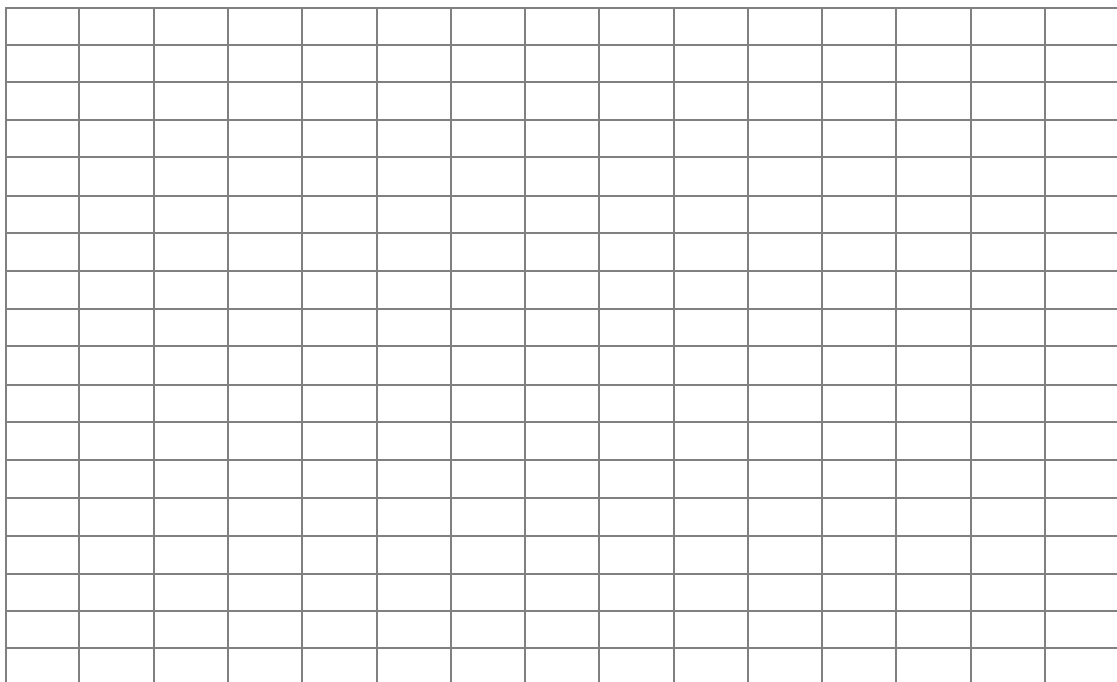
---

---

---

**Scatterplot 2 Creation**

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



### Scatterplot 2 Data Analysis

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

---

---

---

---

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

---

---

---

---