

Name \_\_\_\_\_



**B** **U** **b** **b** **l** **e** **s** **!**

**Question:** Which brand of dishwashing soap makes the biggest bubbles?

**Hypothesis:** I think \_\_\_\_\_  
because \_\_\_\_\_.

**Materials:**

Dishwashing soap brand A _____	Dishwashing soap brand B _____	Dishwashing soap brand C _____
Straw	Water	Metric ruler

**Procedure:**

1. Make the first bubble solution by mixing 3 parts water with one part dishwashing soap A.
2. Prepare the table surface by wetting it the bubble solution.
3. Dip a straw into the bubble solution and blow a bubble onto the wet surface.
4. Practice blowing bubbles until you can blow a large bubble without it popping.
5. Blow a bubble until it pops. The popped bubble will leave a ring on the table.
6. Measure the diameter of the bubble in cm. Record your data.
7. Repeat 4 times.
8. Repeat steps 1 – 7 with each brand of dishwashing soap.

What is the GENERAL INDEPENDENT VARIABLE in this investigation?

\_\_\_\_\_

What are the SPECIFIC INDEPENDENT VARIABLES in this investigation?

\_\_\_\_\_

What is the DEPENDENT VARIABLE in this investigation?

\_\_\_\_\_

What are the CONTROLLED VARIABLES in the investigation?

\_\_\_\_\_

Data:

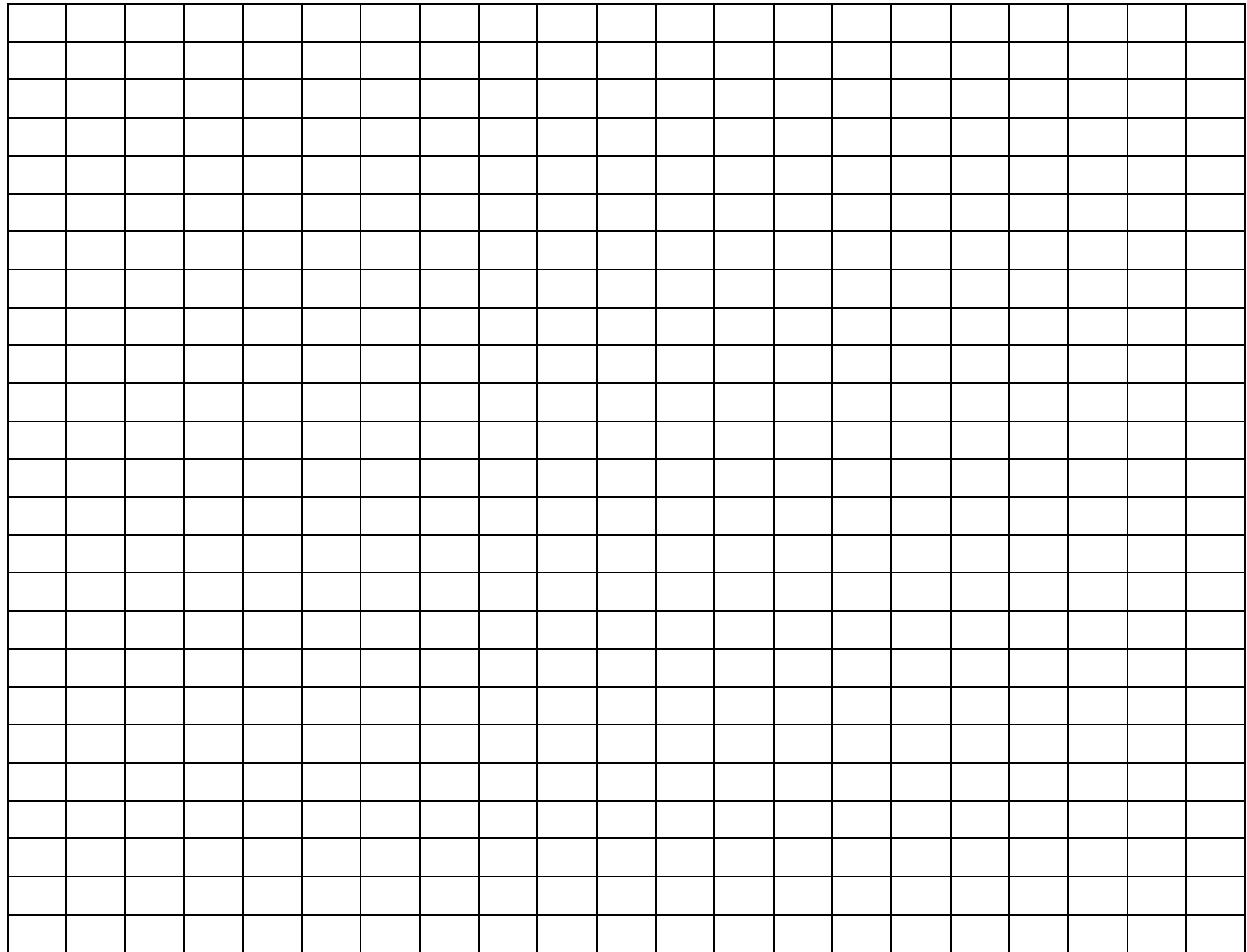
Diameter of Bubbles in cm			
Trial	Brand A	Brand B	Brand C
1			
2			
3			
4			
5			
Average			

Class Data:

Average Diameter of Bubbles in cm			
Group	Brand A	Brand B	Brand C
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
Class Average			

Make a BAR GRAPH to show your data. Remember to title and label your graph.

Title: \_\_\_\_\_



**Data Analysis:**

Why is a BAR GRAPH the best choice for this kind of data?

---

What does the data tell you about the three different kinds of dishwashing soap and bubbles?

---

---

**Conclusion:**

Write a short paragraph describing what you have learned about soap bubble solutions. Answer the original question, explain why your hypothesis was supported or not supported by the data, and use actual data (specific numbers) to provide evidence for what you say.

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

