Parts of the Experiment Practice

Name_

9. Constants (C) AT LEAST 2

10. Control Group

SpongeBob and his Bikini Bottom pals are doing a little research to solve some problems. Read the description for each experiment and answer the questions.						
eating crabby patties at the Krusty K breath mint. He had fifty customers other fifty (Group B) also received a breath mint and did not have the secthat would cure their bad breath. Tw	t for a breath mint that he thinks will 'rab. He asked 100 customers with a higher (Group A) eat a breath mint after they breath mint after they finished the sarret ingredient. Both groups were told to hours after eating the crabby patties ag better breath than they normally had	finished eating a crabby patty. The adwich, however, it was just a regular that they were getting the breath mint, thirty customers in Group A and ten				
1. Independent Variable (IV)						
2. Dependent Variable (DV)						
3. Constants (C) AT LEAST 2						
4. Control Group						
5. What should Mr. Krabs' conclu	sion be?					
should try using Clean-O detergent, to wash one pair of pants in plain wa	a new brand of laundry soap she found atter and another pair in water with the mes, the pants washed in the Clean-O	Clean-O detergent. After washing				
6. What was the problem SpongeBo	ob wanted to investigate?					
7. Independent Variable (IV)						
8. Dependent Variable (DV)						

Squidward's Symphony

Squidward loves playing his clarinet and believes it attracts more jellyfish than any other instrument he has played. In order to test his hypothesis, Squidward played a song on his clarinet for a total of 5 minutes and counted the number of jellyfish he saw in his front yard. He played the song a total of 3 times on his clarinet and repeated the experiment using a flute and a guitar. He also recorded the number of jellyfish he observed when he was not playing an instrument. The results are shown in the chart. _____Number of Jellyfish/Instrument

	Trial	No Music	Clarinet	Flute	Guitar
	1	5	15	5	12
11. Independent Variable (IV)	2	3	10	8	18
	3	2	12	9	7
12. Dependent Variable (DV)		_			· · · · · · · · · · · · · · · · · · ·
13. Constants (C) AT LEAST 2					
14. Control Group					

15. What should Squidward's conclusion be?

Super Bubbles

Patrick and SpongeBob love to blow bubbles! Patrick found some Super Bubble Soap at Sail-Mart. The ads claim that Super Bubble Soap will produce bubbles that are twice as big as bubbles made with regular bubble soap. Patrick and SpongeBob made up two samples of bubble solution. One sample was made with 5 oz. of Super Bubble Soap and 5 oz. of water, while the other was made with the same amount of water and 5 oz. of regular bubble soap. Patrick and SpongeBob used their favorite bubble wands to blow 10 different bubbles and did their best to measure the diameter of each one. The results are shown in the chart.

16. Independent Variable (IV)	
17. Dependent Variable (DV)	
18. Constants (C) AT LEAST 2	
19. Control Group	

Bubbles (Diameter in centimeters)

Bubble	Super Bubble	Regular Soap
1	15	10
2	10	5
3	12	16
4	18	14
5	22	11
6	13	12
7	16	11
8	18	15
9	15	15
10	12	6

20. Look at the results in the chart.

a. Calculate the average diameter for each bubble solution.

Super Bubble = cm Regular Soap = cm

b. What should their conclusion be?