

# Experimental Design- EXPLORE

Name \_\_\_\_\_

**Carefully read the paragraph below. Answer the following questions in complete sentences.**

Mr. Krabbs wants to make Bikini Bottoms a nicer place to live. He created a new sauce that he thinks will reduce the production of body gas associated with eating crabby patties from the Krusty Krab. He recruits 100 customers with a history of gas problems. He has 50 of them (Group A) eat crabby patties with the new sauce. The other 50 (Group B) eat crabby patties with sauce that look like the new sauce but is really just a mixture of mayonnaise and food coloring. Both groups were told that they were getting the sauce that would reduce gas production. Two hours after eating the crabby patties, 30 customers in group A reported fewer gas problems and 8 customers in group B reported having fewer gas problems.



1. What question is Mr. Krabbs trying to answer?

2. What made him want to answer this question?

3. What is being measured or observed in this experiment?

4. Are the observations recorded in words or numbers?

5. What factor does Mr. Krabbs think might cause the measurement to change?

6. What parts of the experiment were kept the same throughout?

7. Is there a standard of comparison in this experiment (something he compared everyone to)?

8. How many times was the experiment completed?

