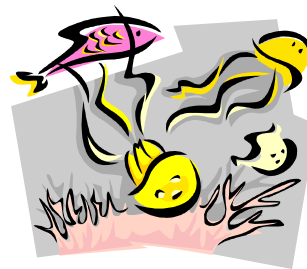


# Scientific Method Scenario



Jadyn and her family have a beach house in Galveston. Jadyn loves spending most of her summers there, but always seems to get stung by jellyfish. But this summer, she wants to have a good time without having to worry about the jellyfish. Jadyn wonders if jellyfish will sting her legs if she puts scented lotion on them. She believes the scented lotion will keep the jellyfish away, but wants to know for sure before she goes to the mall and spends her allowance at *Bath & Body Spa*.

So, Jadyn decides to ask 16 of her friends to participate in an experiment to find out if the lotion will work. She divides them into two groups of 8 and asks the first group to put *Sun Ripened Raspberry* lotion on their legs before going to the beach. The second group doesn't apply any lotion. They all swim in the ocean for 3 hours and then report to Jadyn about any jellyfish stings they received. The data Jadyn collects from her friends is summarized on the following chart.

## Data

Friend	Stung	Not Stung	Lotion/No Lotion
Duke		X	Lotion
Briana	X		No Lotion
Ashton		X	Lotion
Rex	X		No Lotion
Roper	X		Lotion
Stephanie		X	Lotion
Max	X		No Lotion
Elaine	X		No Lotion
Frank		X	No Lotion
Rudy		X	Lotion
Renee		X	Lotion
Ann	X		No Lotion
Lloyd		X	Lotion
Grace	X		No Lotion
Germaine	X		No Lotion
Chloe		X	Lotion

# Analysis Questions

**Directions:** Answer the following completely.

1. What is Jady's hypothesis?

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2. What is the control group?

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3. What is the experimental group?

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4. What is the experimental variable?

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5. Is the data qualitative or quantitative? Explain.

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6. Does the data support Jady's hypothesis? Explain.

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***"Science is a way of thinking much more than it is a body of knowledge." - Carl Sagan***