

Name _____ Date _____

Description of Investigation and Student Report
Be an Investigator

Dear Investigator _____,
(name)

I want to take my family on four different bike trips during the summer. We'll need to rent the bikes for the trips. The company where I will rent the bikes has two different plans. I would like to know which plan I should use for each trip to spend the least amount of money.

It would really make it easy for me if I had an expression for each plan where I could just put the number of hours of a bike trip in the expression and then evaluate it. I have heard you're good with expressions. I would like you to write an expression for each plan for me. I would also like you to use the expressions for each of my planned trips and let me know which plan I should choose for each trip.

I am curious about one more thing. Is there a number of hours for a bike trip where it does not matter which plan I choose?

Sincerely,
Susan Chung

Information**Bill's Bike Company**

Plan A: \$50 flat rate plus \$2 an hour

Plan B: \$12 an hour

Susan Chung's Bike Trips

Trip L: 2 hours

Trip M: 4 hours

Trip N: 6 hours

Trip O: 8 hours

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Be an Investigator
Student Report

Dear Ms. Chung,

Here are the expressions for each plan.

Plan A: _____

Plan B: _____

Here is how I used the expressions for each trip and my recommendation for which plan to use.

Trip L:

Trip M:

Trip N:

Trip O:

If you take a bike trip of _____ hours it doesn't matter which plan you choose.

Have a good time on your bike trips.

Yours truly,

Investigator _____

(your name)