

Name _____ Date _____

Description of Investigation and Student Report
Be an Investigator

Dear Investigator _____,
(name)

I want to build a swimming pool in my yard. I have some beautiful tile that I would like to go around the perimeter of the pool. I have enough of this tile to go around a rectangular swimming pool with a perimeter of 120 feet. I would like to build a swimming pool that has a perimeter of 120 feet and has the largest area possible. Both the length and the width need to be a whole number of feet since the tiles have a length of one foot. What should the dimensions of my swimming pool be? I would also like you to tell me how you figured it out.

Sincerely,

Anita Campbell

Name _____ Date _____

Be an Investigator
Student Report

Dear Ms. Campbell,

The dimensions of your new swimming pool should be:

length: _____

width: _____

This is how I figured it out: _____

Yours truly,

Investigator _____

(your name)